

```

aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt cctttctatt catctctatt 420
tcctgggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480
tgttctgcta gtaaatagtt gaaggttgat cattgatctt ctgcgttttc agtctggcat 540
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctgggtgggt ggcgggggta 600
gtccaggctt gtcttgcaac tgtatgttct cttcagaccc ctccctggcg atgccagatt 660
cactgggctg gcagattctg cccccccaa aaaaaaaaaa aaaatattaa taataaanaa 720
aanagactcc cagga 736

```

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

```

gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctgcgccttg cgaasgggnc 60

```

```

tccggctcgg ctcgcgggga ctgtgcacga ggttgggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtcccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttg 240
agctggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgccggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc cttgccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgtcctc ttgcatcctg agtggtcgct ggccactggc tggaggttta agaagcgccc 540
aggcatcgag accttgttcc agcagcttgc ccctttatat gaaattgtca tctttacgtc 600
agagactggc atgactgcgt ttccactcat tgatagtgtg gaccccatg gcttcatctc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
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cctgcagccc tataacggcg ttgccctgog gccctgggac ggcaactctg atgaccgggt 840
cttggtggat ctgtctgcct tcctcaagac cattgcaactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttyc 960
aaacagcggc aaancgggct tagaagcagg gagga 995

```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```

gccctagtac ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgccgc gctggcgaca gtcggggttg cgagcggccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgcagacgga ggcccccggtg cctgtcagcg 300
tgcagcccc gtcccagtay gacataccca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgccag 480
cccagcgca gggctctgat gtgaccagca tctcctggaa ctccactggc tctgtggttg 540
cctgtgccta cggccggctg gaccatggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggcacggcga gacctgcgc cccagcaacc gtcggccgtg gtggaggtcc 660
ccagcgctgt cctgtgtctg gccttcacc ccacgacgc ccccamgtc gcaggagggc 720
tgtacagtgg tgagggtgtg gtgtgggacc tgagccgtct tgaggacccg ctgctgtggc 780

```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgccc 840
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tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtggggcg 1020
canggcaggc tttcttccag tttgacctca ggttttcatt ttggcaggaa gcgggttnccg 1080
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```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgaccc acgcgtccga gatggcgttt cgcagcaaga ggccggagca cggcggggccc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acggatgatt 120
gatgtccaga ccaaaatggc tgggcgagct ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttggatatt ggctgtggtt ctgggctgag tggagattat ctctcgatg 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgcg gccttggacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

accacgcgt ccggcggctg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctcccca ccaccacagc cccccacca tcaagcttca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctctt gcgsggcaac gtggtcccaa gccactgcc 180
cactcgccgg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggccccgac atcttcttgc acatctctga tgtggaagg gagtatgtcc cagtggaagg 360
cgacgaggtc acctataaaa tgtgctccat cccacccaag aatgagaagc tgcaggccgt 420
ggaggtcgtc atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaaacacc ccttgtctctg tgcttgtggg agactttgcg 540
gggaggaggc agcagacact ggagatgaca ttcttccaca cgagacgggg cttcagccgg 600
gcatgggtccc tctcaagtat ctcttgagg aaggggtatg gggggcagg gtgggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccattctgaag 720
agcattaaaa gcatttaaaa aggaragggtg cccactgggtg gctgagtgga ggttccaacc 780

```

```

ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atggggtcaa 840
cccacagaat ccctcttcct cctggagctg gaggccccag attcccagat ctggccccct 900
ggcagcctga cagggacctt gcgtgacttc tccaaggcaa atttccacct aagtgccctt 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggcttgg ttggttctag 1020
gggagctggc ttgaagtggg kggggaaagg cgggggtggc ggtcttttga ttggacggat 1080
gttgcctttt ggtgcctttg cagtgggagg cggcatagct gcctgtctgg ggaagacagt 1140
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agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agccccctgta attatggcgg cggggggctg ggggtggtgt ggtgggaagg gcttgtggag 1320
aggacacagt ctttgtttta aaactttgtc ccgatccatc cagaaaagag taggtagctt 1380
gcctcctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttcttt aaaactagtg ttaagaaatg cttagggtatt tttttttct tatttttcat 1500
aactaaagct ttcaccagca gccggctctg tttgcacttt gctgccgaca ttgcaaactt 1560
tttggcaggg tgggagactg agtctcattc tgtcamccag gctggagtgc agtngcccga 1620
tctcagcttt actgcaacct ct 1642

```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

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aggaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccaccc tgagtgtcag ccccagaatg gctcagtgc ctgttttggc ccggaggctg 120
accagtgtgt ggctgtgtcc catcaagtgg atggcgctgg agtccattct ccgccggcgg 180
ttcaccacc agagtgtatgt gtggagtatt ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gatcccagcc cgggaggatc cctgacctgc tggaaaaggg 300
ggagcggctg ccccagcccc ccatctgcac cattgatgtc tacatgatca tgggtcaaag 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgtktg aattctcccg 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagccag 480
tcccttgga agcaccttct accgctcact gctggaggag gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaa agggagcccc caggctctcca ctggcaccct 720
ccgaagggtt ggctccgatg tattttratg tgacctggga atgggggcag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagtgagg accccacagt 840
acccctgccc tctragactg atggctacct tgcctccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcggcccca gccccctcg ccccgagagg gccctctgcc 960
tgctgcccga cgtctgggtg ccactctgga aaggscgaag actctctccc cagggaagaa 1020
tggggctcgtc aaagagtgtt tgcctttggg ggtgccgtgg agaaccgccga gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115

```


<210> 166
 <211> 1066
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (739)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (968)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1023)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1025)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1042)
 <223> n equals a,t,g, or c

<400> 166
 gggcacgagn cacctgagcc ccttgtctcg caccggctcc caggagggca cctccatgga 60
 gggctcccgc cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtgggcta 120
 ctccaggcat tgacaagctg accgagaagt cccagggtgtc agaggatggc accttgcggt 180
 ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240
 gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300
 caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgaggc 360
 tgctgcaggt gctggttccg cagtggagaa gatctgcac gacaagggcc tgacggatga 420
 gtctgagatc ctgcggttcc tgcagcatgg caccctgggt gggctgctgc ccgtgccccca 480
 ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540
 catgtggggc gtcattctatc tgaggaatgt ggacccccct gtctggtacg acaccgacgt 600
 gaagctgttt gagatacagc ggggtgtgagg atgaagccga cgaggggctc agtctagggg 660
 aaggcagggc cttgggtccct gaggtttccc ccatccacca ttctgagctt taaattacca 720
 cgatcagggc ctggaacang cagagtggcc ctgagtgcca tgccctagag acccctgtgg 780
 ccaggacaat gtgaactggc tcagatcccc ctcaaccctt aggctggact cacaggagcc 840

```

ccatctcttg ggctatgccc caccagagac cactgcccc aacactcgga ctccctcttt 900
aagacctggg ytcagtgctg gcccctcagt gccaccact cctgtgctac ccagcccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaagggg ggtttttgaa ccaaggggga 1020
aancnacggg gcctgggtcc cntttgaaa ggtttccctt gggaaa 1066

```

```

<210> 167
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (597)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c

```

```

<400> 167
gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggtcgcgag gatggatccc gtaccgggga cagactcggc gccgctggct 120
ggcctggcct ggctcgtcggc ctctgcaccc ccgcccgggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccgcanga gaacgtgggt gccgatatcc 300
agatcgtggg ggacaagagc cccctgccgc tgggcttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkggar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggctttg ccatctggtg caagaaaggc caaggccccg 540
aggccagttg cccaaagccc cgangtcctc agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttgg aagccggaca agcgttc 657

```

```

<210> 168
<211> 1026
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 168

```

ggcacgagga gagatggagg ggcggcaggt gctggagggtc aagatgcagg tggagtacat 60
gtcatttcagc gcacacgcgg acgccaaggg catcatgcag ctggtggggc aggcagagcc 120
gkagagcgtg ctgctgggtg atggcgaggc caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgctgcc 240
cacaagcccc agcatccccg taggcatctc gctggggctg ctgaagcggg agatggcgca 300
ggggctgctc cctgaggcca agaagcctcg gctcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctgggtg cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgctc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgctgctc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggacct 600
aggcaccaag gtgctgtggg tctcctggac ctaccaggac gaggagctgg ggagcttccc 660
cacatctctg ctgaagaagg gcctcccca ggccccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcagggtc catccctggg gacagaggcc ttgtgtcacc 840
tgcctgcccc ggcagctggt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggccttttag ngggggtttt 1020
aaatta                                           1026

```

<210> 169

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 169

```

ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggcttttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180

```

```

acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgtcatgttt 240
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300
tggggccatgg aggacaagca ggagatgggtg gacatcatcg agacgggtgta ccgcgggggcc 360
cgcaaargcc gcggcctgggt ggtgtccccc aaggactact ccaccaagta ccgtactga 420
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540
attgataaca tgggtcttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660
tcttaccctt ggagtaaaac gaaggtgttt atcctgtgag cctgtgcgtt ttgcatactg 720
ggttggtttt ctngggcttc ggtgacagca tatnccgcga gctgggcttt aaca 774

```

<210> 170

<211> 402

<212> DNA

<213> Homo sapiens

<400> 170

```

ggcacgagcg gcggtggggc ggacagccgg ggtgcgcact tggggccccc tggccatggc 60
ggcgaagggtg gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaaggg 120
cctgagtgac aagcagcggg aggaacatta cttctgcaag gactttgtca ggctgaagaa 180
gatcccgaca tgggaaggaga tggcgaaaagg ggtggctgtg aagggtggagg agcccaggta 240
taaaaaggac aagcagctca atgagaaaat ctccctgctc cgcagcgaca tcaccaagct 300
ggaggtggac gccatcgtca acgcccgaag cagctccccg ccccgaggga gcctaattaa 360
agatcttcgt tgtggcaaaa aaaaaaaaaa aaaaaaaaaa aa 402

```

<210> 171

<211> 796

<212> DNA

<213> Homo sapiens

<400> 171

```

aggcatcggg gacagccgct gcggcagact cgagccagct caagcccgca gctcgcaggg 60
agatccagct ccgtcctgcc tgcagcagcc caaccctgca caccacccat ggatgtyttc 120
aagaagggtc tctccatcgc caaggagggc gtggtgggtg cgggtggaaa gaccaagcag 180
ggggtgacgg aagcagctga gaagaccaag gaggggggtca tgtatgtggg agccaagacc 240
aaggagaatg ttgtacagag cgtgacctca gtggccgaga agaccaagga gcaggccaac 300
gccgtgagcg aggtgtggt gagcagcgtc aacactgtgg ccaccaagac cgtggaggag 360
gcggagaaca tcgcggtcac ctccgggggtg gtgcgcaagg aggacttgag gccatctgcc 420
ccccaacagg agggtgaggc atccaaagag aaagaggaag tggcagagga ggcccagagt 480
gggggagact agagggctac aggccagcgt ggatgacctg aagagcgtc ctctgccttg 540
gacaccatcc cctcctagca caaggagtgc ccgccttgag tgacatgcgg ctgcccacgc 600
tcttgccctc gtctccctgg ccacccttg cctgtccacc tgtgtgtgtg caccaacctc 660
actgccctcc ctcgcccca cccaccctct ggtccttctg accccactta tgtgtgtgtg 720
aatttttttt ttaaatgatt ccaaataaaa cttgagccca ctyctaaaaa aaaaaaaaaa 780
aaaaaaaaag ggccc 796

```

<210> 172

<211> 478

<212> DNA

<213> Homo sapiens

<400> 172

```

aattcggcag agcctggttg cagggcagct aggggtctct gcattctcca catggtctca 60
tgcccccttt tgtcccctac aggaggactt gagggccatct gccccccaac aggaggggtga 120
ggcatccaaa gagaaagagg aagtggcaga ggaggccccag agtggggggag actagagggc 180
tacaggccag cgtggatgac ctgaagagcg ctctcttgcc ttggacacca tccccctcta 240
gcacaaggag tgcccgcctt gagtgacatg cggctgcccc cgctcctgcc ctcgctctccc 300
tgggcacccct tggcctgtcc acctgtgctg ctgcaccaac ctacttgccc tcccccggcc 360
ccaccacccc tctggtcctt ctgacccccc ttatgctgct gtgaattttt tttttaaatg 420
attccaaata aaacttgagc ccactcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 478

```

<210> 173

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 173

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tttcccaatg cctgccacca cggagactca gggccacctg ccaccctccc tcgctgcent 60
ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cgggtgtttac aaggaggtga 120
tcactataaa cctctgccag aagcaggtgg tggagaagat accactgccc ttttttgcca 180
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cctcatgctg ggacaggcca ggattcacgt aaatcgctg gagcaagctg ttgtaaatgt 540
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<210> 174

<211> 1891

<212> DNA

<213> Homo sapiens

<400> 174

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<210> 175

<211> 2161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 175

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gccaagtttg gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
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aatgaatgta ttgaaaaagt tgaaattgct ggtcctgggt ttattaatgt ccacttaaga 540
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gcagggtatg acgtgctcag gttaaactcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

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<210> 176

<211> 2411

<212> DNA

<213> Homo sapiens

<400> 176

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gccagagaaa aaggtagaat ggacaagtga cactgtggac aatgaacaca tgggccgccg 180
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<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

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gcagaatggc cttgcttgag gtttttgcaa atctctcggg tgtctggctt agtgggaggc 180
agctgggccc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240

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caacanattt gaagcccg                                     1338

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<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1614

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<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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aacagtcaaa cttatttttg taatgtatgt tattgtgtga tgcagttttt tgcttctgtc 4200
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aaaaaaaaaa aaaaaaaaaa aaaaaanaa aa 4292

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<210> 180

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 180

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cagctcctcr cgccatcacc atcgccgcgc cgggttccac ctrccccaac agcccctgct 120
ccagaggggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180
ggagcagaca ctgctgaagc ccaagtgaga aaccacggcg ctttggcgtg taacntggaa 240
tat 243

```

<210> 181

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 181

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aattcggcag agaccagggtg tacctgagct acaataacgt ctccctccttg aagatgcttg 60
tggccaagga caactgggtg ctgtcctcgg agatcagtcg ggtccgcctg tacactctgg 120
aggatgacaa gttcctctcc ttccacatgg agatgggtgg gcagtgtggat gcagmccagg 180
ccttcctgct gctctcggac ctgmgtcaga ggccagagtg ggacaagcac taccggagcg 240
tggagctagt gcagcaggta gacranggac gacgccatct accacgtcac cagmcctgmc 300
ctcggagggtc acacaaagcc ccaggacttc gtgatcctgg cctcgaggcg gaagccttgt 360
gacaatgggg acccctatgt catcgcgctg aggtcgggtc cgctgcccac acaccgagag 420
acgccagagt acagacgcgg agagaccctc tgctcaggct tctgcctctg gcgcgagggg 480
gaccagctga ccaaggtagc ctgtagtaga ctcgggtcct gtccacagcc ctagctgcca 540
gcaatgctgt cctcacagag gcatagtcgc cccagctggg gttgtgctcc actgtgacgg 600
tggccccggg ggaggatgcc agcagcctgc ctatggytgc cagctgtgct gtgagccag 660
cagcatggcc tgcctctggg aagggacaca gggtgtccag agcccctggc acaactgctg 720
agncanatgc tgtggagnca gctgttaccc tgtaagccac tggcccagca cctgcctaca 780

```

gggccagcct ggtggccaca gtgcacgtgg ggg

813

<210> 182

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 182

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ggttttacat gaccgcagtc gccctcagtt tcaccngta ggaatcggnc tggggatgca 60
ccgtgctact ctcttcctcc aggcgggtcc ccggcgcggtg cgcgcgatcc atgtccatgt 120
ccgcgcctat caataaagtt gctcacttgt tgccggcccg ctagmccgaa aggttgcgcg 180
cgcagmccga gaagtctcgc gatagccagc cgcgggtgcc cttgcgcttc ccgagctggc 240
ggggtccgtg gtgcgggatc gagattgcgg gctatggcgc cgaagttttt cgtcagtact 300
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ttgaaggagt ggctaagggt ggacaataca cgttcactgc agctgctgtc ggggccgtgt 480
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tgaggggctg ggagggtgtt gcaaaaccca aggtgtgagc cctgtgcctg ccgggacctc 720
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aaaaaaaaat yggggggggg ccscskaacca attkccctta ag 822

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<210> 183

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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gccagttcca gcccgcaccc cgcgtcggtg cccgcgcccc tccccgggcc ccgccatggg 120
cctcaccgtg tccgcgctct tttcgcggat cttcggggaag aagcagatgc ggattctcat 180
ggttggtctg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtcaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
ccagaacact cagggcctca tctttgtggt ggacagtaat gaccgggagc gggccaaga 420
atctgctgat gaactccaga agatgctgca ggaggacgag ctgcgggatg cagtgtgct 480
ggtatttgcc aacaagcagg acatgcccac cgccatgccc gtgagcgagc tgactgacaa 540
gctggggcta cagcacttac gcagccgcac gtggtatgtc caggccacct gtgccacca 600
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tcccggactc ctcaggcagt gccctttcct cccacttttc ctccccata gccacaggcc 780
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tgtactctag gggccagggt gggaggggga aggtgagggc ttcgggtggt gctataatgt 1020
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gngggggggcc ccgna 1095

```

<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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tcgtgctcaa tggaaacccc ctgctgcatg cacagctccg gcagctccca gcgatgacgg 120
ccctgcagac cctgcacctg cggagaccca gcgcaccag agcaacctgc ccaccagcct 180
ggaggggtctg agcaacctcg cagacgtgga tctgtcctgc aatgacctga cacgggtgcc 240
cgagtgtctg tacacctctc ccagcctgcy cgcctcaac ctgagcagca accagatcac 300
ggagctgtcc ctgtgcatag accagtgggt gcacgtggaa actctgaacc tgtcccgaaa 360
tcagctcacc tcactgcctc cagccatttg caagctgagc aagctgaaga agctgtacct 420

```

```

gaattccaac aagctggact ttgacgggct gccctcaggc attggcaagc tcaccaacct 480
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cccaaagctg aggaaacttg tcctgaacaa gaaccacctg gtgacctcc cagaagccat 600
ccatttcctg acggagatcg aggtcctgga tgtgcgggag aacccaacc tggatcatgcc 660
gcccgaagccc gcagaccgtg ccgctgagtg gtacaacatc gacttctcgc tgcagaacca 720
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atgaccctga caggtgccct caggggtctg ggaaatccaa ctctctccac agtgtgagtg 3540
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gatctagaac tagtc 3675

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<210> 185

<211> 1040

<212> DNA

<213> Homo sapiens

<400> 185

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ggacagagcc tccactgagc tgctgcctgc ccgccacata ccagctgac atgggcaccg 60
caggagccat gcagctgtgc tgggtgatcc tgggcttccct cctgttccga ggccacaact 120
cccagcccac aatgaccagc acctctagct ctcagggagg ccttggcggt ctaagtctga 180
ccacagagcc agtttcttcc aacccaggat acatcccttc ctcagaggct aacaggccaa 240
gccatctrct cagcactggc accccaggcg caggtgtccc cagcagtgga agagacggag 300
gcacaagcag agacacattt caaactgttc cccccaattc aaccaccatg agcctgagca 360
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catttggtgt tatcagcttc attgtcatcc tgggtggtgt ggtgatcatc ctagttggtg 480
tggtcagcct gaggttcaag tgtcggaaga gcaaggagtc tgaagatccc cagaaacctg 540
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ttatctccat gaagaacatc aacatgaata atggcaaca aagtctctca gcagagaagg 660
ttctttaaaa gcaactttgg gtccccatga gtccaaggat gatgcagctg ccctgtgact 720
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```

<210> 186

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (76)
 <223> n equals a,t,g, or c

<400> 186

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ancagctata gatcatgaca ggcaanggta nactgacagt acggtcggat tcccgggtcs 60
acccacgcgt ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180
catgggggag aagccagtgg ggagcctggc tgggattggt gaagtcctgg gcaagaagct 240
ggaggaaagg ggttttgaca aggcctatgt tgtccttggc cagtttctgg tgctaaagaa 300
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ccgggactgc ttcggatgcc ttcgagagtgt gtgcgacgcc ttcttgtgat gctctctggg 420
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cccggcccca tccctcacc ccaccctcac tttcaatccg tttgatacca tttggctcct 720
tttttggcag aacagtcact gtccttgtaa agttttttag atcaataaag tcagtggcctt 780
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817

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<210> 187
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<400> 187

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gctgcacgcc gcggctactg gggccaggtg cctgggtggag ctgctcgtgg cgcacggggc 120
cgacctgaac gcaaagtccc tgatggacga gacgccctt gatgtgtgcg gggacgagga 180
ggtgcggggc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgcccagag 240
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gaggcgggtg agcctaaccc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360
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gccgcacaat ggccgagtag ggggctcccc agtgcggcat ctatactcca agcgactaga 540
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<210> 188
 <211> 1286
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (1245)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1254)
 <223> n equals a,t,g, or c

<400> 188
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 atgggctgca agtacacctg caaataaaac tactagaata ctgctagtta aaataagtgc 1080
 tctatatgca taatatcaaa tatgaagata tgctaagtgt ttaatagctt ttaaaagaaa 1140
 agcaaaatgc caataagtgc cagttttgca ttttcatatc atttgcattg agttgaaaac 1200
 tgcaaaataa agtttgtcac ttgagcttat gtacagaatg ctatntgggg aacnctttta 1260
 ggatgggttt tatttttcca tttttg 1286

<210> 189
 <211> 1738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1480)
 <223> n equals a,t,g, or c

<400> 189
 gcggcgccct cggagccaaa ggcgcgcggc ggacacggcg gggccctcgc gcgcctggag 60
 acgatgccaa agctgcaggg cttcgagttc tggagccgca ccctgcgagg ggcccgcac 120
 gtgctggccc ccatggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180
 ggggcacagc tctgctacac gcccatgctg catgcccagg tctttgtccg cracgccaac 240
 taccggaagg agaacctgta ctgagagggt tgccccgagg accggcccct catcgtgcag 300
 ttctgtgcca atgaccgga ggtgtttgtt caggcggctc tcctggctca ggattactgt 360
 gacgccattg acctgaactt gggctgcccc cagatgatag ccaagagagg tcactatggc 420

```

gcctttctgc aggacgagtg ggacctgctc caaagaatga ttttgctggc ccacgagaaa 480
ctctctgttc ctgtcacgtg caaaatccgt gtcttcccgg agattgacaa gaccgtgagt 540
acgcccagat gctggagaag gccggctgcc agttgctgac ggtgcacgga cgcaccaagg 600
agcagaaggg gcccctgtcg ggtgcagcgt cctgggagca tatcaaggct gtgcggaagg 660
ctgtggccat ccctgtgttt gctaaccgga acatccagtg cctgcaggac gtggagcgct 720
gcctccggga cacgggtgtg cagggcgctc tgagcgcaga gggcaacctg cacaaccccc 780
ccctgttcga gggccggagc cctgccgtgt gggagctggc cgaggagtat ctggacatcg 840
tgcgggagca cccctgcccc ctgtcctacg tccgggcccc cctcttcaag ctgtggcacc 900
acacgctgca ggtgcaccag gagctgcgag aggagctggc caaggtgaag accctggagg 960
gcatcgctgc tgtgagccag gagctgaagc tgcgggtgtc ggaggagata tccaggcagg 1020
agggagcgaa gcccaccggc gacttgccct tccactggat ctgccagccc tacatccggc 1080
cggggccag ggaggggagc aaggagaagg cagggtgcgc cascaagcgg gccctggagg 1140
aagaggaggg tggcacggag gtcctgtcca agaacaagca aaagaagcag ctgaggaacc 1200
cccacaagac cttcgacccc tctctgaagc caaaatatgc aaagtgtgac cagtgtggaa 1260
acccaaaggg caacagatgt gtgttcagcc tgtgccgcgg ctgctgcaag aagcgagcct 1320
ccaaagagac tgcagactgc ccaggtcacg gattgctttt taaaacccaa ttggagaagt 1380
ctctggcctg gaaagaggcc cagcctgagc tgcaggagcc tcagccagca gcacctggaa 1440
caccagggtg cttctccgaa gtcattggca gtgccctggn ctgaaggccc acaaccccca 1500
ccccaggac tgctgctgga gcctggacac gtcctactta agaaaatgcc ttttactcag 1560
ggaatctcct gctacttaat gtggaaagac acgcccattg ccccttcgc ccactctggg 1620
ggcctggaaa tgctgcagtg gggagcaggc cccaggctgg acctgccctg tcctcagcac 1680
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaaa aaaaaaaa 1738

```

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

```

agcacatcaa atgccccac tccaagtacg ggtgcacgtt catcggaac caggacactt 60
acgagaccca cctgggagact tgccgcttcg agggcctgaa ggagtttctg cagcagacgg 120
atgaccgctt ccacgagatg cagctggctc tggcccagaa ggaccaggag atcgcccttc 180
tgcgctccat gctgggaaaag ctctcggaga agatcgacca gctagagaag agcctggagc 240
tcaagtttga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagttcc 300
ggcgggacgc atccatgtta aatgacgagc tgtcccacat caacgcgcgg ctgaacatgg 360
gcatcctagg ctctacgac cctcagcaga tcttcaagtg caaagggacc tttgtgggcc 420

```

```

accagggccc tgtgtggtgt ctctgctct actccatggg tgacctgctc ttcagtggct 480
cctctgacaa gaccatcaag gtgtgggaca catgtaccac ctacaagtgt cagaagacac 540
tggagggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gtcttgacaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggcca tgacaacccg gtgtgcacgc tgggtctcctc acacaacgtg ctcttcagcg 720
gtccctgaa ggccatcaag gtctgggaca tcgtgggcac tgagctgaag ttgaagaagg 780
agctcacagg cctcaaccac tgggtgcggg ccctgggtggc tgcccagagc tacctgtaca 840
gcggctccta ccagacaatc aagatctggg acatccgaac ccttgactgc atccacgtcc 900
tgacagacgtc tgggtggcagc gtctactcca ttgctgtgac aaatcaccac attgtctgtg 960
gcacctacga gaacctcatc cacgtgtggg acattgagtc caaggagcag gtgcggaccc 1020
tcacgggcca cgtgggcacc gtgtatgcc tggcgggtcat ctgcagcca gaccagacca 1080
aagtcttcag tgcatcctac gaccggctcc tcagggctctg gagtatggac aacatgatct 1140
gcacgcagac cctgctgctg caccagggca gtgtcacgc gctggctgtg tcccgggggc 1200
gactcttctc aggggctgtg gatagcactg tgaaggtttg gacttgctaa caggatccag 1260
gccaggctgt ggtttccct gaaccagccc tggaccttc tgagccaggc tggccacatg 1320
gggtggtctc ggggtttctg cctgccccgt gggcataggt ggacaggctc tggcagccgg 1380
gcagtgcct ccccgctcca tgctcggcga gcctccctct actcggcact gtccttgctg 1440
cccagccct ctctgggtgc caggtacgac gcttgccccg gccaccctc catccccacc 1500
ctccatcccc accctagatg gagcgagggc ctttttactc accttttcta ccgttttttag 1560
actgtatgta gatttggtta cctcctgggt gaaataaatg ctccacagac tgtggctgtg 1620
agtggggaca gctcctcggg acaagggggc tgtgtgtggc cttgaggttg gtgtgcacag 1680
gactggctg ctgtgagtgg gggggcatgg ggcagtttcc tttggtggac ccaggaytt 1740
cgsgccamt cggggsctcc cctccctgct aggaggcaca ccctcagagg agctgcaagc 1800
ccgtggctgc ctgtacatg cctgcttnc acgtggctgc acgtgacac acccacattc 1860
accaaaccca cccgngccct gggacgcaac cacgccagga ggaggacacn ggccgccgag 1920
agc 1923

```

```

<210> 191
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 191
ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat cattaatttt cagaacttaa 120
tcagtgtctt tacatttggt ttttctttta tgctagtgtg aaatggagga tgaaratata 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250

```

```

<210> 192
<211> 1902
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (763)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1898)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1900)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1901)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1902)
<223> n equals a,t,g, or c

<400> 192
ngggacgntg gtagaccanc gcgtaccgct gagtcaratt ttggcatcaa cttgaagggc 60
ccaaaaatca aaggaggtgc ggatgtttca gggggtgtca gtgcccara catcagcctt 120
ggtgaagggc atttragtgt taaagggtcc gggggtgagt ggaagggacc ccaagtctcc 180
tctgctctca acttgacac atctaagttt gctgggggcc ttcatttctc aggaccaaag 240
gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctccctgggt gagtgtgtct 300
gggcctcaag gtcacttgga aagtggatct ggaaaagtaa cattccctaa aatgaagatc 360
cccaaattta ctttctctgg ccgtgagctg gttggcagag aaatgggggt ggatgttcac 420
ttccctaaag cagaggccag catccaagct ggtgctggag acggcgagtg ggaagagtct 480
gaagtcaaac tgaaaaagtc caagatcaaa atgcccagat ttaatttttc caaacctaaa 540
gggaaagggt gtgtcactgg ctcaccagaa gcatcaattt ctgggtccaa aggtgacctg 600
aaaagttcaa aggccagcct gggctctctg gaaggagagg cagaggccga agcctcttca 660
ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaattcatt 720
cagtgatgaa agagagttct ctggaccttc caccgccagc ggnacgctgg agtttgaagg 780
tggggaagtg tctctggaag gtgggaaagt taaagggaag cacgggaagc tgaaattcgg 840
tacctttggt ggattggggt caaagagcaa aggtcattat gaggtgactg ggagcgatga 900
tgagacaggc aagttacagg ggagtggggt gtccctggcc tctaagaagt cccgactgtc 960
ctcctcttct agcaatgaca gtgggaataa ggttggcatc cagcttcccg aggtggagct 1020

```

gtcagtttcc acaaagaaag agtagcaggc ctttgtatgt gtgtacatat atatatatat 1080
aacaaaacat cagccttggg tgggtgtgttc ctatataaac tccaaaggga aacacaccga 1140
ctgcctcagc aatcatgcaa agaccttgcc tggcccgggtg gcaagcgctg aaaaaccgac 1200
cgctgttagg ctcttggaac tatacagata ggtaaagagt tccaagttcg tccagcccat 1260
gtgcaaagtc aacagtatth gccttaagat ttcatatata tataattttt tgcattgact 1320
gctgagagct cctgtttact aagcaagctt ttgtgtttat tatcctcatt tttactgaac 1380
attgttagtt ttggggtaat ggaaaccac tttttcattg taatgacttt gggggccttt 1440
gttagtaagg gtgggtgggg tgatgggttg cagacggagg tcagggtctc ctctttcctg 1500
agactggatc tgttcaaaca gcaaacgccc acagatggcc cagagggtgt ggtagtcagg 1560
gtgtgtgggt gtttttaggg ttcttttagt ttgtttctt caccagggg tgggtggccc 1620
agccagtttg gtgctgacgg tgagaggaaa ttagaatctg tttgcaaatt gtccaacca 1680
ccccctcaac atgaggggct tccattttct gtgttttgta agggaaactg ttccttcatg 1740
ccgccatgtt cctgatatta gttctgattt ctttttaaca aatgttatca tgattaagaa 1800
aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaaataaag ckgttattaa cctgaaaaaa aaaaaaanan nn 1902

```

<210> 193

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 193

```

ttttgcttaa agctatttan gtgacactat agaaggtag cctgcaggta ccgggtccgga 60
attcccgggt cgaccacgc gtccggggtt gcagacggag gtcagggtctt cctctttcct 120
gagactggat ctgttcaaac agcaaagcc cacagatggc ccagagggtg tggtagtcag 180
gggtgtgtgg tgthtttagg gttcttttagt gttgtttctt tcaccaggg gtgggtggcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaatt tgtccaaccc 300
acccccctcaa catgaggggc ttccattttc tgtgttttgt aagggaactg tttccttcat 360
gccgccatgt tcctgatatt agttctgatt tctttttaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaatgaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaaataaa gctgtttatt aaccttgaaa aaaaaaaaaa aaagggngg cccgncccat 540

```

tgccctaggg ggggttaant

560

<210> 194

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<400> 194

```

ctgcaggtac cgggtccggaa ttccgggtcg cccacgcgtc aggcggcggc gatgaccttc 60
tgccggctgc tgaaccggtg tggcgaggcg gcgcggagcc tgcccctggg cgccaggtgt 120
ttcgggggtgc ggggtctcgcc gaccggggag aaggtcacgc aactggcca ggtttatgat 180
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagaggtgaa tgaaaacttt 240
gccattgatt tgatagcaga gcagcccgtg agcgaggtgg agactcgggt gatagcgtgc 300
gatggcgggc ggggagctct tggccacca aaagtgtata taaacttgga caaagaaaca 360
aaaaccggca catgcggtta ctgtgggctc cagttcagac agcaccacca ctagagcgtg 420
tggcacgccg ggggtcccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480
aagctcgctg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590

```

<210> 195

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

```
attggcatcn tctgaaagcg ttttagacag gcagaatctc tggctctccc tctctgcatt 60
ccccacccag tgaatgaatg agaatctgca tttcttgaga tcataagaat actgacatac 120
agatgagata aaactcatgt gaatatcagt tttaaggctg gtggttcatt tgttttgggc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgat taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatatc tacagataat aacaacaact ggtatagtat 360
attttattta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttggttctgg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tcctactgna aaatacttgc atttcttgga 600
ctttaccttc ccactctntt cctttaaaca ggattcttna aaccggaaat tggttanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
```

<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

```
gnataatgct ggccattttg cctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttcccttcc cmcaataaga ccatttaagt gtgtgytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaaggtgc ttgctcttac tstttcaaat 180
```



```

ttttgcaact ctartgtctc actttttaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggcttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagattt aaagcatcaa atgcctgtga aacagcaaag atggttgaag 360
attgtgtctca ttatgtttgt ggagtgtctga ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaagc agaaggcggc tgattgttgg taagtcagt 480
cagttgcata agcagtgtctg tcagaattgg tttggtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaagtaat tgaccaaagt gaaaagggga agtaattaag gaaattggta 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc tttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagtg tctgtcagta agtgaacat 840
tttttggtagg tggttatcc acaaacagtt tagttgtaga ataaaactta tgagtacat 900
ctggaaaagta accatgctaa gatggcaagc aacttgaaa caattaggcc acttggcttt 960
cttttgcgtg attgttttat aagcctactt tacctccag tcttggaac aagttttagt 1020
tttttattgg tttggagact agagccaata gtataatgtt ctcaaaggaa acagacttga 1080
gttgttggat tagaggaact aaccaactt atatgatttt ttttttgttt ttgtcgtgta 1140
gttatggcac tgtcttattt ggaacatttg caactagga taatacaaca tttttaactc 1200
tcatttgaca acctactact aatcacagac cacaagggtg atgaccaa attatgtggtt 1260
tttgactcc atagtgtctc tagcccaatc tttctatact cttacgatta cttgggttaa 1320
cgcytctgtg aggaccttct ggctcttgag ataccctaaa tatttaagat atttagatat 1380
cttgaagata gtataggata tagagattgt accaaatagg aatataagga gtatgtttaa 1440
atgaccagat acctgtttga tagtttactg acctagcaga tgtgtggaaa aggaatcaga 1500
tcttgattct tctgggttta tactggttgt aaaacagaat gatacagaaa atgttttcct 1560
tgtttaactg gtagttgaac atagaacttg ggtattatag atcacttttc actttttgga 1620
atgttttgta ttgaaactta ataaaacttt aacatggcaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaagana aaaaaaaaaa gggggggcnc cc 1772

```

<210> 197

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<400> 197

```

accacgcgt ccggaacttc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgctca agaaccagct ggaccaggaa 120
gtggagttct tgtccacgtc cattgctcag ctcaaagtgg tacagaccaa gtatgtggaa 180
gccaaaggact gtctgaacgt gctgaacaag agcaacgagg ggaaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaaggag 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420

```

```

gccatgaaac aggccgtcat ggaaatgatg agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttggggc gtggcttcct ggtgatggga aggggtcttgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccnggg 660
gggggcccgg naccc 675

```

```

<210> 198
<211> 557
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

```

```

<400> 198
tttaggtgac acgtatagaa ggtcgctgc aggtaccggw ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gcccccgccg tcgtgaagaa gcaggaggcc aagaagggtg tcaaccgct gttcgagaag 180
cggcccaaga acttcggcat cggtcaggac atccagccca agcgggacct gacgcgttc 240
gtcaagtggc cgcgctacat ccggctgcag cggcacgcgc gatcctctac aagcggctga 300
aggtgccgcc cgccatcaac cagttcacgc aggcgctgga ccgccagacg gccacgcagc 360
ttgcttgaag ctggcgacac attaccggcc cgagacgaag caggagaaga agcagcggtt 420
gttgggccccg gcggagaaga aarcggccgg ncaaggggga ntnccgaac aagcggsgcc 480
cgttggtntc gnaancgggg ttgaaaacgg ttcaacaagt tggttgaggaga acaagaaggc 540

```

gccattgggtt cgttatt

557

<210> 199

<211> 2611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<400> 199

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cgctactacc aagtgggtcca cgaaggggca gaactcagga acctcgacac tcaggtccag 180
cgctgtgagg acatcctgca gcagctgcag gccgtggtac cccagataga catggaagg 240
gatcgcaaca tctggatcgt gaagccagga gccaaagtcg gcggacgagg catcatgtgc 300
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gacctcagac agtggttcct ggtaactgac tggaaccac ttaccgtgtg gttctaccgc 480
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```

```

gggccagggtc ctcagacgac agcacagcaa gctgggtgggc actaaggccc tgtcgaccac 1440
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tgattttcaag gtggcaccca gcatcctgaa gccaagaaag gtgggcctcg acctgtgact 1560
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tgggnccccc gaaagagatg ttacttggac c 2611

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<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

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gtgggtccag gtggggctgc tggccgtgcc cctgcttgct gcgtacctgc acatcccacc 120
ccctcagctc tcccctgccc ttactcatg gaagtcttca ggcaagttt tcaattacaa 180
gggactgcgt atcttctacc aagactctgt ggggtgggtt ggaagtccag agatagttgt 240
gcttttacac ggttttccaa catccagcta cgactggtac aagatttggg aaggctctgac 300
cttgagggtt catcgggtga ttgcccttga tttcttaggc tttggcttca gtgacaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgga 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgttgc 480

```

```

tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggcttacca taaagagtct 540
ctgtctgtca aatggaggta tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggagggtgtgc tgtcaccocat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcaccccag tctttgggcc gtatactcgg ccctctgaga gtgagctgtg 720
ggacatgtgg gcagggatcc gcaacaatga cgggaactta gtcattgaca gtctcttaca 780
gtacatcaat cagaggaaga agttcagaag gcgctgggtg ggagctcttg cctctgtaac 840
tatccccatt cattttatct atggggccatt ggatcctgta aatccctatc cagagttttt 900
ggagctgtac aggaaaaacgc tgccgoggtc cacagtgtcg attctggatg accacattag 960
ccactatcca cagctagagg atccccatggg cttcttgaat gcataatagg gcttcatcaa 1020
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gctgaatact ttttttttaa agccacattt cattgtctta gtcaaagcag gattattaag 2160
tgattattta aaattcggtt ttttaaatga gcaacttcaa gtataacaac tttgaaactg 2220
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```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1145)
 <223> n equals a,t,g, or c

<400> 201
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 aaggtacagt cgccgcgtgc ggagcttggt actggttact tggcctcatg gcggtccgag 120
 cttcgttcga gaacaactgt gagatcggct gctttgccaa gtcaccaac acctactgtc 180
 tggtagcgat cggaggctca gagaacttct acagtgtgtt cgagggcgag ctctccgata 240
 ccatccccgt ggtgcacgcg tctatcgccg gctgccgcat catcgggcgc atgtgtgtgg 300
 ggaacaggca cgggtctcctg gtaccaaca ataccaccga ccaggagctg caacacattc 360
 gcaacagcct ccagacaca gtgcagatta ggcgggtgga ggagcggctc tcagccttgg 420
 gcaatgtcac cacctgcaat gactacgtgg ccttggtcca ccagacttg gacagggaga 480
 cagaagaaat tctggcagat gtgctcaagg tggaagtctt cagacagaca gtggccgacc 540
 aggtgctagt aggaagctac tgtgtcttca gcaatcaggg agggctggtg catcccaaga 600
 cttcaattga agaccaggat gagctgtcct ctcttcttca agtccccctt gtggcgggga 660
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 ctgaggggct gggcacccaa cccttttcca cctgtgctta tcgcctggat ctatcattac 1020
 tgcaaaaacc tgctctgttg tgctggctgg caggccctgt ggctgctggc tgagggttct 1080
 gctgtcctgt gccaccccat taaagtgcag ttccctccgg aaaaaaaaaa aaaaaaaggg 1140
 cggnac 1147

<210> 202
 <211> 688
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (477)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (684)

<223> n equals a,t,g, or c

<400> 202

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ggagtcgggc cgcgactgtg gtcgttttta taccttcccg cgcggacgcc ggcgctgcca 120
acggaagggc gggtaggacg gagtttcgtc atgttggccca ggcccatttg agatctttga 180
agatatcctc aacgtgaggc tctgctgcca tgaaggtgaa gattaagtgc tggaacggcg 240
tggccacttg gctctgggtg gccaacgatg agaactgtgg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgccc gcgacgactg cccgctgggtg tggggccagt 360
gtcccccactg cttccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggcccg acctggntct 480
cgctggaggg gcacccctgag actccttcct catgctggcg ccgatggctg ctggggacag 540
cgcccctgag ctgcaacaag gtggaaacaa gggctggagc tgcgtttgtt ttgccatcac 600
tatgttgaca cttttatcca ataagtgaat actcattaaa ctactcaaat cttaaaaaaa 660
aaawaaawaa atctcggggg gggncccg 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

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aaatgtgaaa actaaggcct tgcaagccta tgggtcaccc aggggtagga tcaggcacct 60
taactctaga gccattctc ctaaccactg agccatgatt gtcttacaat tttgaatact 120
gcaaaactgg aagaattgtc tggctattat ctaagctgtt cataagctgg aacaagtaga 180
tctgagggta agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
actatagagg gggaaaaatg gcckgggang tccataaatc taagccngtt tcatggatgt 300
tttt 304
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<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

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gggtcgaccc acgcgtccgc gcgggcgggg acggagctcg gcgtgcttgc tgctggaggg 60
```

```

tgatggccct gcaaggctgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120
cgaagagcga ggttctgggc gagcgctgaa cgccggcccc aagcaccgcc ggtctttaca 180
cagtcgcggt ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaaag tttgccaggc 300
gtggactcaa tgacytttcc aastgtgctc ctcgytgccg ggaccgggtt gagcgcggtt 360
gcccaagttg aactttttgn ggggagggtt ttctctaagg gctgttgtct caatggg 417

```

<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

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tttttttttt tggtttccag agtttggtt tattttgcag tacagaaatc atctggagcc 120
gtctgagaca gacatccctg aagcggaggc tctgtcaaat caatactgcg tcgcacttrg 180
tccgttgagg aagccacacc tggggtacaa aagaagcttc tacgtttacc cgctgtacca 240
cggattttct tcccctttgc tcttaccaat tttaccaggt gaaaacaccg cacagaggct 300
tccctcggaa tgacgctcgg gtctggagtt gggttagaat tgtgggcccc cgtagacccc 360
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gcggggccac gcagggatgc tgttcccaan tcacgganta tctggtgggc ntcgcaatgg 480
ccantgggac agatggcacg tgaaaggggc cgttccgnt ctcaagcggc agaagcacia 540
gaccgcggag g

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<210> 206

<211> 1101

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<400> 206
tccccgggtcg acccacgcgt nccgcccgtt ggaggctgga gcttccgggc cctggaaaagg 60
ggtccccgcg cgtcccgggt cggaggcaga cccctgggtt tgggggacat gggcatttgg 120
ggcgctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgaggtg 180
accttgctgc tcgagtgcct tggcgggggc ctgcccagg agcagataca ggccgagctg 240
agccccgcc atgaccgtcg cccactgccca ggtggggacg aggccatcac tgccatctgg 300
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gccaccctgg cgcctattgg ctctcggggg ccacagctgc tcctgcgcct gggccttact 420
tcctaccgag acttcctggg caccaactgg tccagctcag ctgcctggct gcgacasang 480
ggtgccaccg actggggtga cagcaggcc tatctggcgg acccactggg ggtgggcgct 540
gcactagcca cagccgatga cttccttgty ttcctgcgcc gctcccggca ggtggctgag 600
gccccctggc tgggtggacgt acctgggtgg caccctgagc ctcaggccct gtgccctgg 660
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gtccttcagg agatctgtga tgaggatgaac ctgccgctgc tcacctgag ccagcccctg 780
ctgttkggca tcgcccgaaa tgagaccagt gctggccgag ccagtgccga gttctatgtc 840
cagtgcagcc tgacttctga gcaggatgag aagcactacc tgagtggggg acccgaggcc 900
cacgagtcta caggaatctt ctttgtggag acacagaacg tgcggagatt gcccagagac 960
gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020
agggaagtcc cactggagcg gccctagggg cccagccct actccgcgc ctctgaaaat 1080
aataaacgac tttattcttg g 1101

<210> 207
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<400> 207
gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acactgcgag aatacaagggt ggtggggcgc tgcctgcca ccccaaagt tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgacac aatcacgtgg tcgccaagtc ccgcttttgg 180
tactttgtgt ctacagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcactctggct gcgctatgac 300
tcgagaagcg gtaccacaaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtgggttaccg agacatgggc gcccgacacc gttgcccag cgcattcgat 420
tccagatnct tgaagtggna ggagattgnc agccancaat tgccgccggg ccancattca 480
agcatttcca aggattccaa gatcaattcc cattg 515

<210> 208
<211> 269
<212> DNA
<213> Homo sapiens

<400> 208
aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac cttcctgggc catgcctggg tactgagraa ccagccctg 120
aatctggaca tcattttccc ttccagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaaggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269

<210> 209
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (732)
<223> n equals a,t,g, or c

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<400> 209
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ccgcggacgc ccgctgagct tggcgacacgg gccgaccagg agctggtgac tgccctcatg 120
tgtgatttgc ggcggccagc ggcaggtggg atgatggact tggcctacgt ctgtgagtgg 180
gagaaatggt ccaagagcac ccactgcccc tgggtgcccc tggcctgcgc ctggtcctgc 240
cgaaatctca tcgccttcac catggacctg cgcacgantg accaggacct gaccgcgatg 300
atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420
gacgggcaga tcaagtgtct gagcatggcg gaccacctgg ctaatagctg ggagagctca 480
gtgggcagcc tagtggaggg ggacccccatt gtggccctgt cctggctgca caatggtgtg 540
aaactggccc tgcacgtgga gaagtcgggc gcctccagct tcggggagaa gttctcccga 600
gtcaagtctt caccygttct cacgctgttc ggcggcaagc catggagggc tggatcgcg 660
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720
caccgagagc tntt 734

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<210> 210

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 210

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cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttctg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcggtgccg atggcgcaaa ctcgatggtg cggcgacatc tctaccgga tcatcaaatac 180
cgtaaataatg tgcgtatcca gcagtgggtc gcggagaaac atccggtgcc gttctactcc 240
tgcattctttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaatg agcgccctttc agttccagtt tggttaagacg gtgaaaagcg aaaaatgcac 420
gggtgctggt tccctcgcgc tggcaggatt ttgtctgcgg taaggacaac gcctttcttg 480
attggtgaac ggcggtgatt atcagcgcca gctcgctgga agggattagc tatgcgctgg 540
atagcacaga catttctgcg ntcgtgntac tgaacanccn gagaagctca ataccgttac 600
tggcgcgcca ccgaaaactg ggttaaactc ttcgnaaga tataaaaagc catnctga 658

```

<210> 211

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 211

```

attcgagag ccattctctga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctggt nttncacatg aagaaagtct caagttgctg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctggt ggag 204

```

<210> 212

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 212

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ttccgcagcc ttgccccagc cactcccc tctcacccta ccacagagca tggtaaatac 60
caagcccagag aagacggagg aggactcaga ggaggtgagg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttggcatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgcgag gagacagcca attacctggt 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcattggagc aggtggccca 300
ccagacaatc gtcattgcaat ttatcctgga gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tcactaagat taagacagcc gatcgccagt acatggaggg 420

```

```

cttcaacgac gagctggaag ccttcaagga gcgtgtgcgg ggccgtgcca agctgcgcat 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggctcg gccccggcgg 540
cctggacccc gtcgaggtct acgagtccct ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgccat cagcaagatg gacccccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggc 720
caaggaggga gaggaggcag gtcctgggga cccattactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc ccagctacc accgccacct gcttccaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgcctc tgacttcctc 900
tacttgcgct gctcggccca gcctgggggg cccgcccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
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gctggtctac caggtagttg gggagggccc ccagccaagg ggccggctct cgtcactggg 1140
ctctgttttc actgttcgtc tgtgtctgt gtctctctatt tggcaaacag caatgatctt 1200
ccaataaaaag atttcagatg cnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaa 1260
aaaaaaaaaa g                                     1271

```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

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cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaaacggcg gccgggaggg ggctccgggg accatggggc tcctgacat tctgaagaag 120
atgaagcaga aagagcggga gctgcgactg ctcatgcttg gcctggacaa tgctggaaag 180
acaaccatcc tgaagaagtt caatggggag gacatcgaca ccatctcccc aacgctgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcagt caggactgcc agcgggagct ccagagcctg 420
ctggtggagg agcgctggc cgagcaacc ctctcatct ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggyccctg agctggactc catccgcagc 540
caccactggg gcatccaggg ctgcagcgcc gtcaccgggg agaacctgct gccgggcatac 600
gactggctcc tggtatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccca tgggggggttg 720
ggagtcagcc ggccaaacta aactccccc tcctccacc cagcctgctg ctgctactgc 780
tgcccgcgtg tgctctgtgg ccaccgggct cccatggcgg gagggtgtgt cctgggctgt 840

```

```

ctctctggct cctgacctgg ccttttgcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggcctcatcc ttcactcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga 1025

```

```

<210> 214
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

```

```

<400> 214
ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gtaaatatta cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaa tgggtattgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagttta attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaac ttagratcca tggtggaagg tgkargagga 300
agcatgcacc atcttccactg gccagagcag gnggagagag agcaaatttg g 351

```

```

<210> 215
<211> 1087
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1075)
<223> n equals a,t,g, or c

```

```

<400> 215
gctggagtcc cagtccaccc gccacgcccg agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggcccct ggggccagca 120
gtcgggagga gccacctgag gagcctgagc agtgcccggc cattgacagc caagcccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttgga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtca aggacatcga gacggcctgc aagctgtcga 300
acatcacccg agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctccgttgga 360
cagagcacca ataccggctg ccccccatgg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgcgc catgtcggag gagcagttcc gccagcgctc gcccttggtt ggggatgtgc 480
tgcacgcccc cctggacatc tggaaagtcag cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gaggtggact 600
catcatgctc cgggcagccc atccacctgt ggcagttcct caaggagttg ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccagggtggc cggctgtrgg gcatccgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa ggcatcatc cggaagccag 840
acatctycca gcgscctcgtc taccagttcg tgcaccccat ctgagtgcct ggcccagggc 900
ctgaaacccg cctcagggg cctctctcct gcctgccttg cctcagccag gccctgagat 960
gggggaaaaac ggcagtcctgc tctgctgctc tgaccttcag agcccaaggc caaggagggg 1020

```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080
ggctttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgcctgcngg naccgggtccg gaattcccgg gtcgaccac gcgtccggca gaagaagagg 60
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gagcctcagc 120
agcgagggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactctg 180
gggagccagc tcccggtgctg tctctccac ctctgcaga cgtctccacc ttcctggctt 240
ttccctctcc agagaagctg ctgcgctag ggccaagag ctccgtgctg atagccagc 300
agactgacac gtctgacccc gagaagggtg tctctgcctt cctaaagggtg tcactctgtg 360
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctctgcaga 480
tgggtctgct caagagtga gacaagggtc aggccattgc caacctgtac ggccccctga 540
tggcgctgaa ccacatggtg cagcaggact atttcccaa ggcccttgca cccctgctgc 600
tggcgctcgt gaccaagccc aacagcgccc tggaatcctg ctctctcgcc cgccacagtc 660
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccatcccttg gcctggacca 720
gtgagctggg gagggactcg gatgaactga ggcgcagcct acgccattgc cttggacagg 780
actctggcca caggcagggc ggggtctgtgt cccatgtgtc ctgtcagtc cctgagtatg 840
tgtgtgggtg tggcgcatgt gcaggctctgt gcctcctgtc gggatttggg ttttaacgtc 900
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gctgctccgc cattaaactc acctccacct gagggcgctc tgctgatctc cgccctgggc 1020
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ggagttgccc gcgtgctgtc ctccccctct gtgttgtgat tgggttgtt cctgccctgc 1140
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taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260
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cagatgctgt atgacctccc tgagcaccgg tgactgcccc atgctttccc ctttgtgctc 1620

tgtgtgtgtc	tggctgtgcc	cgggggcttc	acaaataaag	tcgtgtggca	gcttcagaga	1680
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gcctcggcct	caggcactac	ctgggaagt	gcagtcctga	gtggggggccc	atcttcctgc	1860
ctggscacac	ctnaccacag	accctgcctt	tgggctgcag	ctcgccttgg	ttctgcgttg	1920
ctccttcact	atggaagcca	cctcccttgg	gatcctttgc	tccactgcca	catatgt	1977

<210> 217

<211> 2815

<212> DNA

<213> Homo sapiens

<400> 217

aattcccggg	tcgaccacag	cgtccggggcg	cccgcgctctg	agcccagagg	gctgtggagt	60
gtcccggccg	gccccgagca	ccccgcgct	gtcgggtcccc	cgctccggtc	tttcgctttg	120
gcttccaact	agttaaagt	ccttgagcgc	gggtttccgc	ggcccggctc	ttcgcccccg	180
cggcgcgagt	tgagccgttt	ccccgcgctg	tccgcgcggg	cgctccgaca	gcggctctgc	240
agggctccgc	gccagcgtcc	ggccaccgct	cggccgccac	tcaaggctca	cgcgtcgatg	300
tgtagctaca	tagttatctg	tgtacatcca	cgcctggggca	ttttctcct	gcttaatgag	360
gacttgactc	gggagcaagt	gtgaatcatt	gccggggctg	ggaaaggagg	aaggcgcatt	420
taacccctc	ccaccctct	ccatgtccgt	gtgtcactcg	gctcgggtcca	cctggcgcgg	480
ccggtcctgg	ggctgctgct	gctgttgacg	acgacgacga	cgcggggggc	tgctctgct	540
gtcccgggag	tttctcctg	ctccggccac	acagctcctg	gggattgttc	ctcttcgaac	600
cagaacctcg	gcctgaccgg	cactttggct	ccaaaataac	tttatttttg	ggggagaaaag	660
cacatcacga	accagtcaaa	atcgtggttt	atctctgtaa	cgtgaagaact	tctgctcttt	720
tttctttgtt	tgtttttttc	gtaaacatct	gggtgtatat	caaacggcaa	gatgtccagt	780
aatgtcccgg	cggatatgat	aaatttgccg	ctcatttttg	taagcggaaa	aacaaaagag	840
ttcctgtttt	ctcctaacga	ttctgcttct	gacattgcaa	agcatgtata	tgacaattgg	900
ccaatggact	gggaagaaga	gcaggtcagc	agtccaaata	ttctacgact	tatttatcaa	960
ggacgatttc	tacatggaaa	tgtcacatta	ggagcattaa	aacttccttt	tggcaaaaca	1020
acagtgatgc	atttggtggc	cagagagaca	ttaccagagc	caaactctca	aggtcagagg	1080
aatcgtgaga	agactggaga	gagtaattgt	tgtgtaatcc	tgtaaacact	gtctgcctag	1140
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ttcatcatca	gaactaataa	atcaagtgtt	ccaaatacaa	tttgacttaa	aaagattggc	1500
attattttcc	tcatcagcag	aatttataac	agtgtgtggg	atctagaaat	acttatatat	1560
acaattccac	actggaagac	actcagcaat	taatgaagtt	aattactggg	ccaacttgag	1620
aggaaaaaat	ggaaaagaaa	ctaaaatgtt	gggtgaattc	taccaaagtc	agccgtgggtg	1680
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taagacatgc	actcttgagt	cctacagtaa	ctgagtgttt	gttttagacag	cacaagaagg	1860
ggtgagagt	cgtctcctag	ccttaatgtg	ggagggtagt	ttcagtcact	catcggcctt	1920
cattattgtg	crgaaatatt	agaaaacctc	attgatcaat	tttatgtatt	tgaatatcag	1980
caaattgaaa	ttttccataa	ttatcattaa	tttgtaacca	catccagtgt	catgcttact	2040
ccttagagtt	cagatgaatt	cttaaaaatta	aaaaaaaact	ccatagtact	aattttgktt	2100
ctttatatag	tttgcgtttg	atattagtgc	ttgcaattgt	attaaagtca	aaagctgatt	2160
tttatggcat	acacaagaat	gccacttttt	cttttatttc	ataccaataa	tttaaagatt	2220
gatatgctaa	aaacaatttg	cacagcacta	aagcatgagc	tactttctac	taaacctgta	2280


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aaaatatgaa agatttttat attttttcac tgggaagaaa ttcttcctgg atgaaattac 2340
aaatatgtgt agaatatatt taataaaaga cttataaaat acctaactac aggacttaaa 2400
atatagattg ggcgcgtagta tatagaacaa tattccatat aaataagttt agcctttata 2460
aaaatgaagt tgcaggctga cattacattc tgtacttact aagtgtcaac agcccttaca 2520
aacattaaat gtaaattggt tcaaattggtc agcgttggtt aaatgtaatc atgttatttt 2580
attcattggt aatgctttga tgaaaaggct ttatatgcag tagatctacg aaaatattgt 2640
tcatactgat cagaattaaa tttgtataga gcagagtttt aaaatgaatg taaatagcac 2700
taaacgtttt ctttctgcaa cctgtactta cagattcttc ctgtaaacta aataaaaaaa 2760
aaatgatagt gcaaaaaaaaa aaaaaaaggg cggccgctcg cgatctagaa ctagt 2815

```

<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

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gccacgcgt ccggaggcg gggacaactg ggtcttttgc ggctgcagcg ggcttgtagg 60
tgtccggctt tgctggccca gcaagcctga taagcatgaa gctcttatct ttggtggctg 120
tggtcgggtg tttgctggtg ccccagctg aagccaacaa gagttctgaa gatatccggt 180
gcaaatgcat ctgtccacct tatagaaaca tcagtgggca catttacaac cagaatgtat 240
cccagaagga ctgcaactgc ctgcacgtgg tggagcccat gccagtgcct ggccatgacg 300
tggaggccta ctgcctgctg tgcgagtgca ggtacgagga gcgcagnacc accaccatca 360
aggatcatcat tgtcatctac ctgtccgtgg tgggtgccct gttgctctac atggccttcc 420
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gagcaaacac agtcctggag cgtgtggaag gtgccagca gcggtggaag ctgcaggtgc 600
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acttctccct tccctcgggt ccagtcttcc ctttaaaagc ctgtggcatt tttcctcctt 780
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gggaatggag acattcgagg cggcctcagg agtgatgcg atctgtctct cctggctcca 960
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gaggctgagc gtggatctga acaccacagc cctgtactt gggttgcctc ttgtccctga 1440
acttcgttgt accagtgcac ggagagaaaa ttttgcctc ttgtcttaga gttgtgtgta 1500

```

```

aatcaaggaa gccatcatta aattgtttta tttctctcaa aaaaaaaaaa aaaaaaaccaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aangg 1645

```

```

<210> 219
<211> 478
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

```

```

<400> 219
tcgacccacg cgtccgggga attcaaggag acggggggcga cgcggtctgt ggcgcctcct 60
cgggtttggg gctgccgcca tcatgccggg gatagtggag ctgcctactc tggaggatct 120
gaaagtgcag gaggtgaaag tcagttcttc ggtgctcaaa gctgccgccc atcactatgg 180
agttcagtgt gacaagccca acaaggagtt catgctctgc cgctgggaag aaaaagacct 240
ccggcgggtgt ttagaggaag gcaagctcgt caacaaktgt gctctggayt tcttcaggca 300
gataaagctt tcaactgtgca gagcctttta cagactattg gacntgcatc gactactccg 360
gcctgcagtg ttttcgtcgc tgccgcaaac agcaggccaa tttgacgatg tgtgnngggc 420
aactgggatg gtgcggctga actggggaaa angttccagt caccaaantng aaaacagt 478

```

```

<210> 220
<211> 832
<212> DNA
<213> Homo sapiens

```

```

<400> 220
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cagcccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180
tttttcttta cttctaaaaa agttacagtt tactaataaaa gttaagtctg gttctgtcct 240
agaggaaata aattcactat taattcatgt cttaagttac ttgggttaaa acactttcag 300
ccacccagat taattaaagt ggagcagtg agcccctggc tgggagatgg cctccagagg 360

```

```

agcagctgca gggcaygttc tgggcttagc gacagaggca agcaaggac tgggtgtctct 420
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tcctctgtgg tcaactgact actgcgtatc gcagtggaaat aagactgcac agttgctggc 540
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tgcataattta aagcatgtgt tcacactgtg tgtaaacatt cactgaagat tttttctttg 720
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aaaaaaaaaa aaaactcgag ggggggcccg gtaccaaat cgcccgagat ag 832

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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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cctgctcatt tgaaaatctg acatcagctg ggcagtcgcc cccctcctcc tttcctccct 180
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```

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa an

1892

<210> 222

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (860)

<223> n equals a,t,g, or c

<400> 222

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ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca 180
gggacatgct gctggccaat aaggtgccag ctgccgcccg tgetgggtgcc atagcccat 240
gtgaggtcac tgtgccagcc cagaacactg gtctggggcc cgagaagacc tccttcttcc 300
aggcttttagg catcaccact aaaatctcca gaggaaccat tgaaatcctg agtgatgtgc 360
agctgattaa gaccggagac aaagtgggag ccagtgaagc cacactgctg aacatgctga 420
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attctatcat caatggatac aagcgggtcc tggtcttgct tgtggagact gattacacct 660
ttccacttgc tgaaaaggtc aaggccttct tggtgatcc atctgcattt gtgggtgctg 720
cccctgtggc cgctgccacc actgctgcac ctgctgctgc tgcagcccca gccaaagttg 780
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aagcaaagga agagtcggag gaawcggatg agagkattkt camttcgana atcagcaaaa 840
gcaacaattc cagccagttt attgtgaa 868

<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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cgatggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180
cattctggac aactgccc aaatttcccaa tcgtgaccaa cgggacaagg atggtgatgg 240
tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300
taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360
ggacagcaca gacaactgcc ccaccgtcat taacagtgcc cagctggaca ccgataagga 420
tggaattggg gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480
ccctggacca gacaactgcc ggctgggtccc caaccagacc caggaggata gcaacagcga 540
cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggatcga 600
cgtctgcccga gagaacgcag aggtcaccct gaccgacttc agggcttacc agaccgtggg 660
cctggatcct gaaggggatg cccagatcga tcccactgg gtgggtcctga accagggcat 720
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gggcccgnnn caattn 1516

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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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ccggactccg tcggcgcaca tccccgtccc agcgcagaga gccaccccag gaaaagcccc 120
gctggacgag gtcattggctg ccgctgenst tacaagcctg tccaccagcc ctctccttct 180
ggggggcccca gttgcagcct tcagcccaga gcctggcctg gagccctgga aggaggccct 240
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ggccagtgc cagtcctctc cgtccacccc gtcaccccca ctgccccccg aggcagccca 360
ctttctgttt ggggagccca ccctgagaaa aaggaagagc ccggcccagg tcattgtcca 420
gtgtctgtgg aagagctgcg ggaagggtgt gagcacggcg tcggcgatgc agagacacat 480
ccgcctggtg cacctgggga ggcaggcaga gcctgatcag agtgatggtg aggaggactt 540
ctactacaca gagctggatg ttggtgtgga cagctgacc gacgggctgt ccagcctgac 600

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```

tccagtgtcc cccacggcct ccatgccgcc tgccttcccc cgcctggagc tgccagagct 660
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ccctgtcctg agcaccgttg ctaacccccca gtccctgtcac agtgaccgtg tctaccaggg 780
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<210> 225

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 225

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tcgacccacg cgtccggcgt cctctcggag cccgtgcggt cacttagcca agatgcctga 60
ggaaaccacg acccaagacc aaccgatgga ggaggaggag gttgagacgt tcgcctttca 120
ggcagaaaty gcscagttga tgtcrytgat catcaayacy ttctactcga acaargagat 180
cttcttgcyg gactgatctc caactcgtcc gacgctcygg acaaaatccg atacgagagc 240
ctgaccgacc ccagcaagct cgactcgggg aaggagctgc acattaacct catcccgaac 300
aagcaggacc ggaccctcac catcgtggga taccgggatc gcatgaccaa ggccgacctg 360
atcaacaacc tgggcacccat cgccaaktcg gggaccaaag cgttcatgga agytctgcag 420
gcgggcgacg atatttctyat gattggccag ttcggggctg ggttctattc ggctacttg 480
gtggcnagaa ggtgacggtg atcaccaagc acaacgatga cgagcattac gcctgggagt 540
cntccgcagg ggctcgttca angttccgca ttgacacagt gaac 584

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<210> 226

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (498)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (514)
 <223> n equals a,t,g, or c

<400> 226
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 atggtgacag acatccagac tgctgtaagg accaactcca cctttgttga agctttggtg 120
 gaccatgccca aagcacagtg tgatctcctg gggcccggca tggctgacat gtgcaagaac 180
 tatatcaacc agtattcgga cattgccgtc cagatgatga tgcacatgca acccaaagag 240
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 aaggacacgg tccaggcaaa gaccagtgtt agctgtggag atatgagagt tacgtggttg 420
 aaggaagtgg ccaagctcca ttggacaaca acaggactga ggaagaaata gtttcaggct 480
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<210> 227
 <211> 2377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2369)
 <223> n equals a,t,g, or c

<400> 227
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 ggtccaagtc caagtccctg tcggtctcca gatctcgctc gcggtccagg tcccgggtctc 180
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 tggggaaaag atagtgtgtc tttaactctt aaattgtttg gtcctatttt ttaaaaagga 900


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aagggcccta agtagctcag atattaaagt agtattctca attaccaaatt gtttcatttg 960
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tgtaagtact tataacatgg tgtatctttt tgcttatgaa tattctgtat tataaccatt 2280
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aaaaaaaaaa aaaaaaaaaa aaaaaaaang aaaaaag 2377

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<210> 228

<211> 463

<212> DNA

<213> Homo sapiens

<400> 228

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acaatatgac tcctccttta ctccatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgttaagatt gcagattttg gtttatcaaa gtggcgcatg atgtccctct 240
cacagtcacg aagtagcaaa tctgcaccag aaggaggac aattatctat atgccacctg 300
aaaactatga acctggacaa aaatcaaggc ccagtatcaa gcacgatata tataagctatg 360
cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgtc accaatcctt 420
tgcagataat gtatagtgtg tcacaaggac attggactgg tat 463

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<210> 229

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 229

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gacctctctc ccttccagct gccagagacc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgccctgt ccgcggggcc tcgggcatcc agggcctggc 180
caggtttttc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240

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gcaggggtctg gccaaactcg ggctggtgct ggaccaggcg gaggcagagg gtgtgtgcag 300
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gccccccatg tcccaggccc gggaggctgt catcgagct gcatttgcca agctggaccg 420
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gacctgccc ggtgtggagc gaggggcaca ggggcacact aacctcagaa actgaaataa 1140
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ataaaaatag caggtaacac gtcaaaaaaa aa 1232

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<210> 230

<211> 1063

<212> DNA

<213> Homo sapiens

<400> 230

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tcggtcagcc aacgcagagg atgctcagga attcagtgat gtggagaggg ccattgagac 180
cctcatcaag aactttcacc agtactccgt ggagggtggg aaggagacgc tgacccttc 240
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<210> 231

<211> 1063

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<400> 232

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<210> 233

<211> 1782

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2202)

<223> n equals a,t,g, or c

<400> 234

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<210> 235

<211> 2580

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (3)
 <223> n equals a,t,g, or c

<220>
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 <222> (2558)
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<400> 235
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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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cagaattcgg tgcaaaagcc aaacatcttg gtgggatttg ataaatgcct tgggacctgg 2820
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tgagctattc ctctttgggt tggctttttg atatgattaa aattattttt tattcctttw 2940
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3000
ngggggggn                                     3008

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<210> 237

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 237

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caattattga agtcaagtga tgggcacaga ggattgatag ctcaaataag gcttggtact 60
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ttataatatg atgtaagtac agagagctgt gggaacataa aggaaggaaa atgaacttga 180
gtctgagact gctcacttct attagagccc tcttctgttt tgcttcatgt tcagcettca 240
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gtgacgtaca gctacatatt tttcctcaaa attgaggtga aaggaatttc taaagtaggc 360
attatgttct taatttttat ctgtgaatta agccaccag ctcctcagct ctttctctgt 420
tggccctcta cttcagatta ctttctatga agacaaaaat tttcaaggcc gtcgctatga 480

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ctgtgattgc gactgtgcag atytccacac atacctaagt cgctgcaact ccattaaagt 540
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accacaggga gagtaccctg aataccagcg ttggatgggc ctcaacgacc gcctcagctc 660
ckgcagagct gtttcatctg cctagtggag gccagtataa gattcagatc tttgagaaag 720
gggatttttag tggtcagatg tatgaaacca ccgaagattg cccttccatc atggagcatt 780
tcacatgcga gagaccatcc tgtaagtgtt ggaggtgtct ggattttcta tgantaccc 840
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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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tggtcatcag ccaggggaag attgtcctgg aggacggcac cctgcatgtn accgaangct 180
ctggacgcta cattccccgg aagcccttcc ctgattttkt ttacaagcgt atcaaggcaa 240
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<210> 239

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1989)
<223> n equals a,t,g, or c

<400> 239
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tgggcatga gctggagatg atccggccca gcgtctaccg caacgtggcg cgtcagctgc 180
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tggccgtgga ctgtgtgagg caggcccagc ctgccatggt ccacgccctc gtggactgcc 360
tgggggagtt cgtgcgcaag accctggcaa cctggctgcg gagacgcggc ggatggactg 420
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cactctgcag cttcggccgc ttctgaagg ctgccttctt cgtgctgctg ccagagagat 540
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ggggtggggc atgtgccagg acaggagggg cccggcgga agccagcccc ggactcatcg 1860
tgacattgag atcccaactg agggtagggg tggtataaaa cttctccaaa cgatgcgttg 1920
tcattttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaanc cc 1992

<210> 240

<211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (387)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (476)
 <223> n equals a,t,g, or c

<400> 240
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 gcaggagacg caggcatggc cggtagctg actcctgagg aggaggcca gtacaaaaag 180
 gctttctccg cggttgacac ggatggaaac ggcaccatca atgccagga gctgggcgcg 240
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 gttgacrgcg acggcgacgg cgaaatcagc ttccaggagt tcctgacggc ggcrargaag 360
 gccagggccg gcctggagga cctgcangtc gccttccgcg ccttcgacca ggatggcgac 420
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 attgaccatt ttggagc 497

<210> 241
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (133)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (311)
 <223> n equals a,t,g, or c

<400> 241
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 cgcgatgagg atcattccag gcgcgattgc actcataagc tgttccgttt tgaaaattcg 120
 tgttcaacga tgnaatctgt ggataatacg cacatttcgc cggaagtggg atccggttag 180
 ccaraaagca ggcaggacgt gatggatatt gtattttatag agcaactttc ggtaatcacc 240
 actattggtg tttagcactg ggrrcaacya tcgaacagaa gttagtgttc gatatcgaaa 300
 tggcgtgggg ntaacc 316

<210> 242
 <211> 829
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

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gcaggtagcg gtccggaatt cccgggtcga cccacgcgtc cggaagaaa agaagaaaag 120
aaaaaaagat ctttcaaagg gcagatgggt agaaggcata acctctgagg gttaccatta 180
ctattatgat cttatctcag gagcatctca gtgggagaaa cctgaaggat ttcaaggaga 240
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atgaaatagt gatatctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480
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aggctgaggc atgtggatca caaggtcagg agttaaagac cagcctggcc aagatgggtga 540
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atcccagcta ctccaggaggc tgagtcaggg gaatcactgg gacctggggc ggcagagggtt 660
aacagtgagc cgagattgca ccaccgcaact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 780
tacgcgtgca tknaacgtca taggggctng ggcntttacc tttcccgtc 829

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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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gtacttgaat agttacagca tatgtttgaa caggaagtag gaacatgcat acacgaagaa 240
atgctaacgg aaggatttgt tatgttttagg atcttccctt ggaaactaaa aatagaatat 300
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ttgccagtaa tgtttgagag acatgtaagt tgaaagtttt gctaaattat aaagctcctt 420
taattcgttg gttttgattc tcttattctc ttgtcttttc taaatgttaa caaaatatat 480
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gattcggatg ctttatttat agtaactgaa gctaataatg ttttatgttt tgattttttg 600
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tacctgctt ataatactaa tgtttacaga tatgtttctg tttataacca tataatacat 720
tggtttgtc atattagttt tttttgcaag tagttatgta aaagagatag ataataaaa 780
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<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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ccaaagctgc cttcaagcgc ttcaaaactc tacggcacc caacatcctg gcttacatcg 180
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcgcccttg aaggtccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
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```

<210> 245

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<400> 245

```

gctcgtgccg cggcctgctt ctacctggct gagatcacgc tggccctggg ccattctccac 60
tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgccgtcact 180
cacaccttct gcggcaccat tgagtacatg gcccctgnag attctgggtgc gcagtggcca 240
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gccgcccttt accgcagaga accggaagaa aaccatggat aagatcatca ggggcaagct 360
ggcactgccc ccctacctca ccccagatgc ccgggacctt gtcaaaaagt ttctgaaacg 420
gaatcccagc cagcggattg ggggtggccc aggggatgct gctgatgtgc agagacatcc 480
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gccctgtctg cagtcagagg aggacgtgag ccagtttgat acccgcttca cacggcagac 600
gccggtggac agtcctgatg acacagccct cagcgagagt gccaaccagg ccttcctggg 660
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tgtgtctgct ggggcagctg tgcccctgaa tcatgggcac ggaggccgcc cgccrmgcc 1140
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```

<210> 246

<211> 848

<212> DNA

<213> Homo sapiens

<400> 246

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ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc ggggtggacgg gcggcgccgc ggggagctgc gcaagatcca ggcgcggtatg 120

```

```

ggcgtgttcg cgcaggctga cggctcggcc tacattgagc agggcaacac caaggcactg 180
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gccctagtga actgtcaata tagttcagcg accttcagca caggtgagcg caagcracgg 300
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gccatcctca cacagctgca cccacgctcc cagattgata tctatgtgca ggtgctacag 420
gcagatggtg ggacctatgc agcttggtgtg aatgcagcca cgctggcagt gctggatgcc 480
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ctggagcggg tgttgaggc tgctgcccag gctgcccag atgtgcacac cctcttagat 720
cgagtgggcc ggcagcatgt gcgtgaggcc tctatcttgc tgggggactg accaccagc 780
cacccatgtc cagaataaaa ccctcctctg cccmaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 848

```

<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

```

ccccgcgggg acaaggcccg gacgngccg ccggccgcca gcgcccgcgc gtctcgcagc 60
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gaagatgaag aagatgatgt gtcagagggc tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgcccgagc accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtgga cccctgcgag accgcaccag ggccaggatg aagggcgggg gccagccccg 300
ggcagcggca cccgccaggt gttctccatg gcagccatga acaaggaagg gggaacagct 360
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ctacctgggg ccgacgggac cccctttggc tgctctcccg ggcgcaaaga gaagccatct 480
gatcccgtcg agtggaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcaggcga cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
cgcacagatg tgctcaccgg cctgtccatc cgctcgggc cagccctgaa aatctacgag 660
caccacatca aggtgcttca gcaaggccac tttgaggatg atgacccga tggcttctta 720
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agcacgtcgg tgtggggagg ggattgctcc ttaaacccca ggtggctgac cctccccacc 960
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ttttctttct gttgattgtc gctccagctg gctgtattgc tttttaatat tgcaccgaag 1260

```

ktttttttaaa taaaattttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
 aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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 tgtcgccatc gacatgatgg actctcggac cagccagcag ctgcagctca ttgacgagca 180
 ggattcctac atccagagtc gggcagacac catgcagaac attgagtcga caattgttga 240
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 gaggatcgac gagaacgtgc taggagccca gctggacgtt gaggccgccc attcagagat 360
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 cctcattgtc ttcttcatca tctttgtggt cttccttgct tgaaccctct ctactctgag 480
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 ctttcaccat gtgaggcagg gagccctgag cccttcagct gcctgcacaa cccctgacat 960
 tggctgtgtg tgactcaatc tgccaaatgt gctgcagctc gttttctccc aattacagca 1020
 agactgtcag cctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1076

<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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 tgccctcccca atgtccaggg ccctagctgt gaccgmtgtg cccccaactt ctggaacctc 120
 accagtggcc atggttgcca gccttgtgccc tgccacccaa gccgggccag agggcmwcct 180
 gcaacgagtt cacagggcag tgccactgcs gtgccggctt tggaggggcg acttgttctg 240
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 ctcgtggaat agatacacct cagtgtcacc gcttcacagg tcaactgcagc tgccgcccag 360
 ggtgtctggt gtgcgctgtg accagtgtgc ccgtggcttc tcagggaatc ttcttgctctg 420
 ccatccctgc catgcatgct tcggggattg ggaccgagtg gtgcaggact tggcagccccg 480
 tacacagcgc ctagagcagc gggcgcagga gttgcaacag acgggtgtgc tgggtgcctt 540
 tgagagcagc ttctggcaca tgcaggagaa gctgggcatt gtgcagggca tcgtaggtgc 600
 ccgcaacacc tcagccgctt ccactgcaca gcttgtggag gccacagagg agctgcggcg 660
 tgaaattggg gagggccactg agcacctgac tcagctcgag gcagacctga cagatgtgca 720

```

agatgagaac ttcaatgccca accatgcact aagtgggtctg gagcgagata ggcttgcaact 780
taatctcaca ctgcggcagc tcgaccagca tcttgacttg ctcaaacatt caaacttcct 840
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caatacctca gccctggcag tacttagccc tgtgagcaac tcggcaagtg ctcggcatcg 960
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ttcctagcac tgccccacat gcatgtctgc ctatgcactg aagagctctt kgcccgcagg 2340
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aaaaaaaaaa aaaaaagaaa aaaaaa 2425

```

<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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agccccaggc cgcggagtgc tggccgaggc ccggcgagcc ttccgggagg agttcggggc 120
cgagcccagc ctggccgtgt cagcgccggg ccgctgtcaa cctcatcggg gaacacacgg 180
actacaacca gggcctggtg ctgcctatgg ctctggagct catgacggtg ctggtgggca 240
gcccccgcaa gnatgggctg gtgtctctcc tcaccacctc tgagggtgcc gatgagcccc 300

```

```

agcggctgca gtttccactg cccacagccc agcgcctcgct ggagcctggg actcctcggg 360
gggccaacta tgtcaaggga gtgattcagt actaccagc tgccccctc cctggcttca 420
gtgcagtggg ggtcagctca gtgcccctgg ggggtggcct gtccagctca gcatccttg 480
aagtggccac gtacaccttc ctccagcagc tctgtccaga ctcgggcaca atagctgccc 540
gcgcccagggt gtgtcagcag gccgagcaca gcttcgcagg gatgccctgt ggcacatcatg 600
accagttcat ctcaattatg ggacagaaaag gccacgcgct gctcattgac tgcaggtcct 660
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aacttgtgcc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
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```

<210> 251

<211> 494

<212> DNA

<213> Homo sapiens

<400> 251

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cttgcctgtc tccagctctg ctgaggagta cgtgggcctg tctgcaaacc agtgtgccgt 120
gccagccaag gacaggggtg actgcggtca ccccatgtc accccaagg agtgcaacaa 180
ccggggctgc tgctttgact ccaggatccc tggagtgcct tgggtgttca agcccctgca 240
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cggagcacc ttgccgggt gtgattgctg ccaggcactg ttcattctag cttttctgtc 360
cctttgctcc cggcaagcgc ttctgctgaa agttcatatc tggagcctga tgtcttaacg 420
aataaagggt ccattgtcca ccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg

```

<210> 252

<211> 2491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2457)

<223> n equals a,t,g, or c

<400> 252

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ggcggnngcg cccggnccctc gcccgccacg cagccgccac cgctgctgcc gccctcggcc 60
acgggtcccg acgcgacagt gggcgggcca gcgcgcgaccc cgctgctgcc gccctcggcc 120
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gactcgctcg acccgctcctt cactcacgcc atgcagctgc tgacggcaga aattgagaag 240
attcagaaaag gagactcaaa aaaggatgat gaggagaatt acttggattt attttctcat 300
aagaacatga aactgaaaga gcgagtgtcg atacctgtca agcagtatcc caagttcaat 360
tttgtgggga agattcttgg accacaaggg aatacaatca aaagactgca ggaagagact 420
ggtgcaaaga tctctgtatt gggaaagggc tcaatgagag acaaagccaa ggaggaagag 480
ctgcgcaaag gtggagaccc caaatatgcc cacttgaata tggatctgca tgtcttcatt 540
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<210> 253

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 253

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cgagatattt ttgggagtta ttccctaaat aactgcatta tatgctcctt tcatgacgaa 120
attgctgccg tggagaagac tggaggaaac tcgaggaaga gggagaagcc gacaagtgc 180
cgacgggcta ggaactgtcc tgcttggtg ttagcgtttc ccgycgggcc agtaaggctg 240
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gggaaaatgc agccacctgg caaacttgct gctatggcat ctataagact tcagggatta 420
cataaacctg tgtaccatgc actgagtgac tgtggggatc atgttggtat aatgaacaca 480
agacacattg cattttctgg aaacaaatgg gaacaaaaag tatactcttc gcatactggc 540
taccaggtg gatttagaca agtaacagct gctcagcttc acctgaggga tccagtggca 600
attgtaaaac tagctattta tggcatgctg ccaaaaaacc ttcacagaag aacaatgatg 660
gaaaggttgc atctttttcc agatgagtat attccagaag atattcttaa gaatttagta 720
gaggagcttc ctcaaccacg aaaaatacct aaacgtctag atgagtacac acaagaagaa 780
atagacgcct tccaagatt gtggactcca cctgaagatt atcggctata agagaataag 840
aattgcagaa aataacagtg aagtgtattga aactttcttc tgatgagttt ctctaaccta 900
caggatggag taaaacaact gctacagttc agcacctgtt ttatgtgccg aatcactgtg 960
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agaaccattt ttatgtaatc tgatttgaat gttatagttg ataataataa aatcacttac 1080
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<210> 254

<211> 1409

<212> DNA

<213> Homo sapiens

<400> 254

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cactttgtct tttcttaagt aattatggta tatataaggc gttgggaaaa aacattttat 60
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cactgcactt tcaggaatgt ttgcttatgg tcctgattag aaagaaacag ttgtctatgc 180
tctgcaatgg tcaatgatga attactaatg ccttattttc taggcatata ataatagttt 240
agagaatgta gaccagataa atttgtttac tgttttaaga aaactaccag tttacttaca 300
gaagattctt ttttccaaac agtaggtttc atccaagacc atttgaagaa ctgcaaactc 360
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cacattcaga tgtcttggtt gtgacttatt accagtgtgg cagagaaccc aagttacatt 480
ttagatcaaa atattcttta ttaggtattt gttaaaaggc tagagcctac aagttgctct 540
tccatgcgtt ggtcaggggg ccctgaaaac actggtaata ttaagagtct ttctcagggt 600
aacttaaatgt tttcttaatg aacartgttt ccagctacaa attcttycaa taaattgtct 660
tcctttttga aaagtactct catagaagaa atttagcaat ttctcgttga ctgactcagt 720
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```

```
tatgcagcat  tgttatagtc  tgattatttc  tgtgttttga  atatgatttt  cctaattgctc  1320
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```

```
<210> 255
<211> 490
<212> DNA
<213> Homo sapiens
```

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<400> 255
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tccgtggcct  agcgcctccg  tccccgccac  ccgtgatcgt  gcgccgaggc  ccgcgagggg  120
tcgccgcccc  ggccgccttg  gttccacttc  cagcaacagc  tcctgcagca  gtaccgagtg  180
ccccggggaa  gccattcccc  acccccagag  tctccccaag  gctgaccggg  gtcattggtg  240
ggccagacttc  tttttcgggg  agtccaccct  cccgttcattg  gccacgggtg  tggagtccgc  300
agagcactcg  gaacctcccc  aggcctccag  cagcatgamc  gcctgtggcc  tggctcggga  360
agccccgagg  aagcagcccg  gcggtcagtc  cagcamagcc  agcgctgggc  ccccgctcctg  420
aactgagcgg  ttaacaacaa  gccccaaagg  tkcggaagcg  ctagtycaac  agagccctcc  480
gggccctttg  490
```

```
<210> 256
<211> 1233
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (931)
<223> n equals a,t,g, or c
```

```
<400> 256
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ggagccctgc  cctgaggatt  acaagtacat  ctcagagAAC  tgcgagacgt  ccaccatgaa  120
catcgatcgc  aacatcacc  acctgcagca  ctgcacgttt  gtggacgact  gctctagctc  180
caactgectg  tgcggccast  tcagcatccg  gtgctgggat  gacaaggatg  ggcgattgct  240
ccaggaattt  aacaagattg  agcctccgct  gattttcgag  tgtaaccagg  cgtgctcatg  300
ctggagaaac  tgcaagaacc  gggtcgtaca  gagtggcatc  aaggtgcggc  tacagctcta  360
ccgaacagcc  aagatgggct  ggggggtccg  cgccctgcag  accatcccac  aggggacctt  420
catctgcgag  tatgtcgggg  agctgatctc  tctgtctgag  gctgatgtga  gagaggatga  480
ttcttacctc  ttcgacttag  acaacaagga  tggagaggtg  tactgcatag  atgcccgtta  540
ctatggcaac  atcagccgct  tcatcaacca  cctgtgtgac  cccaacatca  ttcccgtccg  600
```



```

gntcttcatg ctgcaccaag acctgcgatt tccacgcata gccttcttca gttcccgaga 660
catccggact ggggaggagc tagggtttga ctatggcgac cgcttctggg acatcaaaaag 720
caaataatttc acctgccaat gtggctctga gaagtgaag cactcagccg aagccattgc 780
cctggagcag agccgtctgg ccgcctgga cccacaccct gagctgctgc ccgagctcgg 840
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tggccacccc ccgtgttccc catcctcagt tgaagtttga tgaattgaag tcgggcctct 1140
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aac 1233

```

<210> 257

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2395)

<223> n equals a,t,g, or c

<400> 257

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cggacggtgg gacgggsaag tgggggtgaa aagcggcccg acctgcttgc ggtgtagtgg 60
gcggaccgcg cggttgagg tgtgaggatc cgaaccagg ggtggggggg ggaggcggct 120
cctgcgatcg aaggggactt gagactcacc ggccgcacgc catgagggcc ctgtgggtgc 180
tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttgatg 240
tggatggtac agtagaagag gatctgggta aaagtagaga aggatcaagg acggatgatg 300
aagtagtaca gagagaggaa gaagctattc agttggatgg attaaatgca tcacaaataa 360
gagaacttag agagaagtcg gaaaagtttg cttccaagc cgaagttaac agaagatga 420
aacttatcat caattcattg tataaaaata aagagatttt cctgagagaa ctgatttcaa 480
atgcttctga tgcttttagat aagataaggc taatatcact gactgatgaa aatgctcttt 540
ctggaaatga ggaactaaca gtcaaaatta agtgtgataa ggagaagaac ctgctgcatg 600
tcacagacac cggtgtagga atgaccagag aagagttggt taaaacctt ggtaccatag 660
ccaaatctgg gacaagcgag tttttaaaca aaatgactga agcacaggaa gatggccagt 720
caacttctga attgattggc cagtttggtg tcggtttcta ttccgccttc cttgtagcag 780
ataaggttat tgtcatttca aaacacaaca acgataccca gcacatctgg gagtctgact 840
ccaatgaatt ttctgtaatt gctgacccaa aggaaacac tctaggacgg ggaacgacaa 900
ttacccttgt cttaaaagaa gaagcatctg attaccttga attggataga attaaaaatc 960
tcgtcaaaaa atattcacag ttcataaact ttcctattta tgtatggagc agcaagactg 1020
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```

```

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tgataaatac aatgatactt tttggaaaaga atttggtacc aacatcaagc ttggtgtgat 1920
tgaagaccac tcgaatcgaa cacgtcttgc taaacttctt aggttccagt cttctcatca 1980
tccaactgac attactagcc tagaccagta tgtggaaaaga atgaaggaaa aacaagacaa 2040
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tctgctgaat tggatgaaag ataaagccct taaggcmag rtactgtggg aaattttacc 2340
aatttggtggg aaatattagt gtccggcatt tnaggggaaa gttntttttt ggggnaacca 2400
aatt 2404

```

<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2071)

<223> n equals a,t,g, or c

<400> 258

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gggacccgaa cccagcctct cccctacccg aacaccggcc ccggctccac cgaggcccgg 180
gtcccccagc ccgtctcgcc gccgccatgg cggaccctaa atacgccgac cttcccggca 240
ttgccaggaa tgagccagat gtttatgaaa ctagcgacct acctgaggat gatcaagcgg 300
agttcgatgc ggaggagctg acaagcacia gtgtggaaca catcattgtc aatcctaata 360
ctgcctatga caagttcaag gacaagagag tggggacaaa gggacttgat ttctcagatc 420
gtattggaaa aaccaagagg acaggatatg aatctggaga atatgagatg cttggagagg 480
gtctgggagt gaaggagaca cccagcaaaa agtaccagcg cctactgcat gaggtccaag 540
agctgacaaa tgaagttgaa aaaatcaaga cgacagtga ggagtcagcc acagaggaga 600
agctgacccc tgtgttgctg gctaaacagc tggcagccct gaagcagcag ctggttgctt 660
cccacctgga gaagctgctg ggaccagatg ctgcaatcaa ccttaccgac cccgatggcg 720
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ggggaaaaaac cactgggacc cccccagata gcagccttgt cacttatgaa ctacattctc 840
ggcctgagca ggacaagttc tctcaagctg ccaaagtcgc agaacttgaa aagcgccctga 900
cagagctgga gacagctgta cgttgtgatc aggatgctca gaatcccctt tctgcaggctc 960
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actgtaatac tgtacaactg tttctgacca ttaaagtctg ttgtactctg tgtggcctct 1800
gctgtgtttc ctggggagga agcagcacta ggatatagat attcattcgt cataacaggc 1860
aatctaagcc actctatact acaagagatg gatttaaatt gtaacctgtt cttaccaaag 1920
aactaaataa aaaatgagta cagagccaga gccagagttt caaaatattc tcactgttta 1980
aatgaagagt gtctcccata gaaaagcagt ggaggcccca cagggaaggt acaaaacaga 2040
attaaaactc aaaaaaaaaa aaaaaaaanc ncaagggggg gcccggtccc ca 2092

```

<210> 259

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (377)
 <223> n equals a,t,g, or c

<400> 259

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ctctttcctt aacagtgact tgggcttgag tctggcaagg aaccttgctt ttagcttcac 180
caccaaggag agagaccaa agcctctgat ttttaatttc cataaaatgt tagaagtata 240
tatatacata tatatatattc tttaaatttt tgagtctttg atatgtctaa aatcattcct 300
ctgcctgaag cctkagttag cacatgarga actgtgttca ttaagtgtta ttaatgttga 360
actgaaaaaa aaaaacnggg ggggccg 387
```

<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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tgaagattct tcgttgtaaa gccgccaagg tggagagtgc gattgcagaa ggggggtgctt 180
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aagaacgaca tgatgcaatc ttacaggaaa taagaggcat actaaataag cttactcctg 420
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tacaagatga atttgaaaac cgaactagaa atgttgatgt ctatgataag cgtgaaaatc 720
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ccaagaccag caaaaagcca ccaccgtcaa aggaagaact ccttaacta actgaaactg 1800
ttgtgactga atatctaaat agtggaaatg caaatgaggc tgtcaatggg gtaagagaaa 1860
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```

```

atagaagcga tgaagataaa gaaaaagcaa gttctttgat cagtttactc aaacaggaag 1980
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aactggaggt tgacatccct ttggtgaaat cctatttagc acagtttgca gctcgtgcc 2100
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tatagtattg aaattaagtc tacttaattt atcaagtcag gttcatgccc tgattttata 3600
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```

<210> 261

<211> 897

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 261

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ccgactacct ctccccggag gagatacaga ggcagctgca ggacatcgag aggcggctgg 180
acgccctgga gctccgcggc gtggagctgg tgaagcgact gcgggcggcc gagggagatg 240
acgctgagga tagcctcatg gtggactggt tctggctcat tcacgagaag cagcttctgc 300
tgagacagga gtcagagctg atgtacaagt ccaaggccca gcgtctggag gagcagcagc 360
tggacatcga gggcgagctg cgccggctca tggccaagcc cgaggctctg aagtcactgc 420
aggagcggcg gcgggagcag gagctgctgg agcartacgt gagcaccgtg aacgaccgca 480
rtgacatcgt ggactcgctk gacgaggacc ggctccsgga acaagaggag gatcagatgc 540

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```

tgcgggacat gattgagaag ctgggcctcc agaggaagaa gtccaagttc cgcttgtcca 600
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ctcggccccg acctggcatc cggacttgga ctcggggcca tgggcttggc ccggacccgg 720
aaccgggact tgtactcggg gccgtgggct cggcccgac ccggcattcg gacttggact 780
cggaagggc ctctgtccc tacaagggc atgtggacag cagggacctg cgctaccgtc 840
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<210> 262

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1791)

<223> n equals a,t,g, or c

<400> 262

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19
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<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<400> 264
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ccgtcccgcg gccccagcc gcccccaacc ctgccccacg ggcccggcgc catgagttag 180
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cagatgagga cccggaggac cctccgtggg cacctggcaa agatctatgc catgcactgg 360
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tccttgccct tccaaccaag tttngtg 1287

<210> 265
<211> 991
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (421)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (966)
 <223> n equals a,t,g, or c

<400> 265
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 agaagctgaa gccagagctc atgggcctga tccgccagca gcgcttgctc cgcctctgtg 300
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<210> 266
 <211> 2320
 <212> DNA
 <213> Homo sapiens

<400> 266
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 aaaaattggg gcaccccga gctctttctg ctggcacagg ctcccctcaa cctcccagct 1080

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tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2320

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<210> 267

<211> 423

<212> DNA

<213> Homo sapiens

<400> 267

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aggrragctc tggaggggtg acatccccct gaagctcgtg atgatcgttg gcatcgattg 180
tkaccatgac atgacagctg ggcggaggtc aatcgcagga ttgtgtgcca gcatcaatga 240
agggatgacc cgctggttct cacgctgcat atttcaggat agaggacagg agctggtaga 300
tgggctcaaa gtctgcctgc aagcggctct gagggcttgg aatagctgca atgagtacat 360
gccagccgg atcatcgtgt accsgtggtg gtaggagacg gccagytgaa aacactgggtg 420
act
423

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<210> 268

<211> 1846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1816)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<400> 268

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tactcagag gaaaaatgaa aaggaacaag aaagaagatt gcagcaggca gtgttaagca 180
gacagatgcc gtctgaaagc ttggacccag cgttcagtcc tcggatgccg tcctctgggt 240
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ggaacactca gacctcccag atttaactaa acaaaagaaa ctctccacct agcactgttt 660
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aaagctgata ttttcnngat ataaaatgtt gnatgatgaa aaaaaa 1846

```

<210> 269

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 269

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gtctcatact ctacaccagt attgctgtcc tactcaggtc cttgactcca tgaagcttac 180
cccctcaggc aggctggcag agagcaggga agaggaggag gaggaggaga ctgaggaaga 240
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tcggttaactg agaggacaag ggccattttc tatgcagaag caaaagcctt aaccagsccc 360
tccttcccc caccacccc cccgcagatt ccccatggg accctgtccc ctgcttcagg 420
aaccagatgg gcaagcatcg tgcccttcc tccccacc ttcttcttgg aattcccatc 480
cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
gactaaaatt tggganaagc aaacttggac ttggacttgg aactggatcc tcccgtaccc 600
g                                                                                   601

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<210> 270

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (876)

<223> n equals a,t,g, or c

<400> 270

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cgggggttttag gttagatgtc acggaaaaag ctagttctgt ggtcaggcgg caccaatgag 540
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ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tggttcttcc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatctc caccacagca 720
gatttttaaga aattataata tgtaatatat gatattctata aagagtatat ctaacgtgaa 780
taaattatga agcatactaa tgagtaccta tgaccataa cacatatata ttaaaacatt 840
ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa                                     880

```

<210> 271

<211> 2484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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210

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<210> 272

<211> 751

<212> DNA

<213> Homo sapiens

<400> 272

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caaggtcaag aaatcccaca gtttgatgta ttaaagaaat gacttatttc tactcaaat 660
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<210> 273

<211> 3309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3279)

<223> n equals a,t,g, or c

<400> 273

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<210> 274

<211> 843

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (780)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (833)
 <223> n equals a,t,g, or c

<400> 274
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<210> 275
 <211> 2028
 <212> DNA
 <213> Homo sapiens

<400> 275
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<210> 276

<211> 1455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1408)

<223> n equals a,t,g, or c

<400> 276

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<210> 277

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 277

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215

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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ttttccttca tttccagatc ctttatttca gagcagccca ttttcctctg gattcattga 180
tgaatacaag taccacacacc tttggccagt aatgtcagtt acctgctgca gggtctgtgt 240
atgaggcctt catgaacggg taccttctcc atacactagg gaagcatttg tcagactctg 300
cagactgggt tctagagagg cagagtcttt aagagtattc atttcttctg gaagggtggag 360
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taaataaata aataaataat aaaaaagaa acatgtattg gaggtaattt gacactgctg 480
ctggcagtag ttctctattc accattttta agccattca gggtctctct tcctgaaaag 540
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aatcaaacgg tgggtttctt agtagctaaa gaagccatgt acttctagtg tgtttctcag 720
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ttggctgccc ttataaattt agatctgtag tttaaataaa cattaaatga gtatttcatg 1380

<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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ttcgcgctcg gcttgtcggg cgggagctcg tctcgatgct agcccgcgag ctaccgcgcg 180
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gcctcgtgcc cttcgatcac gccgagagca cgtacggcct ctaccggacg catcttctct 300
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ttttcgacct gctgacctg ggggtgggcc ccgatggtca cacctgctca ctcttcccag 480
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caccgccaca gcgtgtgacc ctcacrcctac ctgtcctgaa tgcagcacga actgtcatct 600
ttgtggcaac tggagaaggc aaggcagctg ttctgaagcg cattttggag gaccaggagg 660
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acgaggcggc cgcccgctc ctgaccgtgc ccttcgagaa gcattccact ttgtagctgg 780
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cgccactctc cgggctctcc tttcaaaaag ccacgtcgtg ctgctgctgg aagccaacag 900
ctccggccag cagccctacc cggggctcaa cacacaggct gtggctctgg acatccggat 960
attaaaagga gcgttgctgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaann 1018
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<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<400> 280

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aacttgtctt tagccttggt gctttgatcc ttctatatatt tgaccccaca ggtgtggtcc 120
ggtttactta atcaggacat gggcctaaga acaaaccttt tcccttcatt ataactcca 180
tagacaactt attagaaggg actagagttt ttgcaaattt ccctgctgga tggggcctat 240
agctatactt agtatatgcc taaacatggt aattggatag taaatggtt tctagttcca 300
ttgctgtata tttgcctaaa tggacttggt ttcaaattat ttcttcaatt gtcatagata 360
atcctgtacc aaatggggaa gaattaggaa ataatcatgt tgtctaattg tactctggat 420
tcagggcagc aactgccatt taaatgttgt cttgttcatt tctaaatctg ttccatgaag 480
tttaggtttt ccctgaaact aagttgaatt atttccaaaa tgaaacaggc ttctcaggga 540
catatccact tcttcccagt ctgccttttg attaaagcac caagcagaga ccacattaat 600
tccctttgct atactgtgat ccttagtatg ttaattctta agaaaccaac atatcactga 660
aagaaggctg gcagaacgca agtgcatttt ttactgtgg gaagaaagat caagtgcgt 720
attatttttt cctggttgtc acttaatggg ctgagtaaaa agcttgaaaa ctgagacttt 780
cggctctggt tctgocactc attggttatg aggaggccca gagcaggtaa gttcaccttc 840
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gctaaatttg ttctctttac gggacagatt tctaataaag tgcttggtct taaaatacat 1020
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ttatttttta atttttaata ctttnggtac tccaattgtc cagtgttccn tgggtgttgt 1140
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<210> 281

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 281

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agtcgtctat aaaaactcat ctctgcgcgt ctcttcgcca cattcgcttc ctgctttcgg 180
tgtgtctggt gtgtcttggt gcgggcaccg cagtcgccgt gaagatggcg tctaccagcc 240
gtttggatgc tcttccaaga gtcacatgtc caaacatcc agatgcgatt ttagtgagg 300
actacagagc cgggtgatatg atctgtcctg aatgtggctt ggttgtaggt gaccgggtta 360
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agggcacagg agctgcaagt tttgacgaat ttggcaattc taagtaccag aatcgagaaa 540
caatgagcag ttctgatcgg gcaatgatga atgcattcaa agaaatcact accatggcag 600
acagaatcaa tctacctga aatatagttg atcgaacaaa taattttattc aagcaagtat 660
atgaacagaa gagcctgaag ggaagagcta atgatgctat agcttctgct tgtctctata 720
ttgcctgtag acaagaaggg gttcctagga catttaaaaga aatatgtgcc gtatcacgaa 780
tttctaagaa agaaattggt cgggtgtttta aacttatttt gaaagcgcta gaaaccagt 840
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gacagtcccta tagactgata tatcctcgag cccagatct gtttcctaca gacttcaaat 1140
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tgaatacaaaa actttgcctg ttgtacatag cctatacaaaa atgctggggt gagcctttca 1260
tgaggaaaaa caaaagacat ggtacgcatt ccagggtcga atactattgc ttggcattct 1320
gtatgtatat actagtgaag catatttaat gatttaaaatt tcttatcaaa tttcttttgt 1380

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agcaatctag gaaactgtat tttggaagat atttgaaatt atgtaattct tgaataaaaac 1440
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ataatgcaaa tcattgcagc taataaaagct gatagacttt atttccatta cttatatata 1560
catagtTTTT tattttaata aatttatgga aagagcaaaa gcttttgaga accattgtta 1620
acatcaacat catagtttcc agtttgaaaag gatgtgtatg tgagatttat tatgtatatt 1680
attaaacaag aagtgatgag cttggccttg aaaggcacca gcttgagaga cattaatatg 1740
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<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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gcctccgcgg atccggggcc gctcggcccn tcccatggaa ggtgctcggg tcttcggggc 120
actgggtccc atcgggtccct cctcacctgg gctcacctc ggggggtctg cctgagcga 180
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gaaccaaggc gagaacctgg agaccgacca gtggccgcag aagctgatca tgcagctgat 360
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ccacttcacc aacagagact gcgactcgct caaggggctc tgccgcatca tgggcaacgg 480
cttcgcgggc tgcatgctgt tccccacat ctccccctgt gaggtgcgcg tgctcatgct 540
cctgtactcg tccaagaaga agatcttcat gggcctcatc ccctacgacc agagcggctt 600
cgtcagtgcc atccggcagg tcatcaccac ccgcaagcag gcagtgggac ctggtggtgt 660
caactcaggc ccagtccaga tcgtcaacaa caagtttctg gcatggagtg gtgtcatgga 720
gtggcaggag cccaggcctg agcccaacag tcggtccaag aggtggctgc catcccacgt 780
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tggttcgcn ggctgcgtgc acttttcccta caaagcatcg tgtgagatcc gcgtgcttat 1020
gctcctgtac tcttcagaga agaaaatytt cattggcytc atcccccattg accagggcaa 1080
ntttgttcaa agg 1093

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<210> 283

<211> 1556

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1339)
<223> n equals a,t,g, or c

<400> 283
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agacttgaga gagttcacat tccactgtca gcaccagcct cagcaactgt gcagagacct 180
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acagaacaga agcacaaga ctcagccaag agttctcttt attccctttg atccctcccc 480
aaggtgaggg cttaggcagc tgtagaaccc caggaaagaa cggaatccag gcaatctgtt 540
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<210> 284
<211> 1029
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (828)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (958)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (972)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (976)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (987)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1007)
 <223> n equals a,t,g, or c

<400> 284
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 cgactactcc gacctggcct tgcctctgca gatccccacg cagaatgcac aggcccggca 180
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<210> 285
 <211> 1583
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (1411)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1531)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1557)
 <223> n equals a,t,g, or c

<400> 285
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 gccgagctga ccaacaggac acacagattc ctggagaaaag ccaaggcctt gaagatcagt 180
 ggtgtgatcg ggccttaccg tgagactgtg gactcgggtg agaggaaaagt cagcgagata 240
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 gaggaagcag agaaaactgat taaagatggt acagaaaatga tggctcaagt agaagtgaaa 360
 ttatctgaca caacttccca aagcaacagc acagccaaaag aactggattc tctacagaca 420
 gaagccgaaa gcctagacaa cactgtgaaa gaacttgctg aacaactgga atttatcaaa 480
 aactcagata ttcgggggtgc cttggatagc attaccaagt atttcagat gtctcttgag 540
 gcagaggaga ggggtgaatgc ctccaccaca gaacccaaca gcaactgtgga gcagtcagcc 600
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 caagaggagc aggtcgcct ccttgatgaa ctggcaggca agctacaaaag cctagacctt 720
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 gggggaggcc gaattttttg gaa 1583

<210> 286
 <211> 1177
 <212> DNA
 <213> Homo sapiens

<400> 286
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 aagayatctc aaaatgttta ccaatgtttt aagaagcttt gtgtgatatt cttccaaatg 120

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tagttaccaa atataaatatg gtagaaaagg ctaaatacata cttaatgagc aaattgaagt 180
aagctttttaa agtatatttc tcttttggtg aaaggccaat ggagacattg tgaattttaag 240
tgaacatttg cctcaagatg ttaactataa acacactgca tacaattttc ttctgaataa 300
caaatgaatg cttattgctg catgatgtaa gcaaaaagtca ttatttttcc tattcatttg 360
aaataagtta tggcttaaaa tgcttttgga gtttatttct caaaattaaa atctgggtcac 420
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agtgacaatg caaggtaagt atatcaaagg aaatcaacag ttgtgcttgg gggctttttg 540
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aattacgaca ttttaagata tttcatagac aaaccaaaca aaaatatatg tttttacttt 660
aaagtgaatg tttttctctt cagctgatct aaaaatgaaa gcaaratatc ttatgtagaa 720
atattttgat aatattttta cagtgaagct tcccatgttt ttatgtctta agtttctttg 780
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agctaatagt agtttacaga caattctgat gattatgatt tcatttggtt taactaagct 1020
gtactagttc atttcataag gaaatgatac tgtagacaaa tgtaataaaa gcctgtgagt 1080
caagcatcaa gtggtgtttg ttagaaataa actagagatt tttaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa acccccgggg ggggcc 1177

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<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

```

acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctattttaaaa atacagttta ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataat gcaaattggtc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360

```

223

```

agaatggcca gtaagttaag cctttttgga tccnggtaat ccaggggtatc catttaccat 420
ggaaagggga ttccccaac tactggcca gaggggaagt tggttttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt 506

```

```

<210> 288
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (926)
<223> n equals a,t,g, or c

```

```

<400> 288
ttnggccgag cttgggtcat ggcgccgccc ggcgcgctgc tggatgatggg cgtgagcggc 60
tcggggaaat ccaccgtggg cggcctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcacccgga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggatcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtcca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt ctgtgctatg cctgtatttg 900
cacaaataaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

```

```

<210> 289
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

```

```

<400> 289
ggcacgagct cgtgccggtt tgacctggag catgggtcct ggaccaaatt gccccgcagc 60
ctgcgcata gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120
gccattgggg gccttgaaa ccagccatgt cctttgggct ctgtggagag ctttagcctt 180

```

```

gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
ctgcaggctg ggccccggct gtttgttatt ggggggtgtg cccagggccc cagtcaagcc 300
gtggaggcac tgtgtctgcg tgatggggtc tgaaggcttg gtgggagctg tccactggag 360
cagctcattg ccagangmrg ctatttctat ggctcctttt gctgctgagg acaactactg 420
tggctctgtg ggatgagaga ggcatggggg tgagcacttg aaacactgcc ttggggcctt 480
gggttagggg agcctttgtc tttagtgcag gacacacata tgcttacacc tacctttatc 540
accattcggt catgaatcat gcctagctcc atccttgccc tgggacctac taggccttcc 600
atccaactgg gaaatgggga gaagcaaagc tggcctcatg ctcttcaggg tcagttccta 660
tctggagttg accaggccta cccagttgc cattcctgaa aaatctcagc tgccaggctg 720
ccttttaggg ccctgtagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
gaggatgttg gaactgccag agggccggag cgcaggagtt caagtggagg aatgctggct 840
ttgagccctc tacactgctg gttgtatgac cttggacaag tcacttcacc tctctgtgcc 900
tcagcatcct catctataaa tggggatctc tgaaaccttc ctacctacc tacctcacag 960
ggctgttgtg aggaccagg gagtttgat gtggaagtaa aagtgtgct aaaacctaaa 1020
aaaaaaaaaa aaaa 1034

```

<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

```

cccagtagct cgtgccgctc gtgnccgcca actctcagtt tgatcttaaa gtctgaataa 60
taaaacaaat cccagcagta atacatttct taaacctcac agtgcattgat atatcttttc 120
attctgatcc tgtgtttgca aaaatataca catgtatatc atagttcctc actttttatt 180
catttgtttt cctattacct gtagtaaaata tattagttag tacatggaat ttatagcatc 240
agctaccccc aggaacagca cctgacaggc gggggatttt ttttcaagtt gttctacatt 300
tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc acactagtcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcatctaatt ttcattatca 420
tggtattgat ggacctaaag aaataaaaaat tagactaagc ccccaaataa gctgcatgca 480
tttgtaacay gattagtaga tttgaatata tagatgtagt attttgggta tctaggtgtt 540
ttatcattat gtaaaggaat taaagtaaag gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaaata tagcaaaaaat aaaaactaaa ggtagaaaag ctttttagat 660
atgccttaat ttagaaactg tgccagggtg ccctcggaat agatgccagg cagagaccag 720
tgcctgggtg gtgcctcctc ttgtctgccc tcatgaagaa gcttccctca cgtgatgtag 780
tgccctcgta ggtgtcatgt ggagtagtggt gaacaggcag tactgttgag aggagagcag 840
tgtgagagtt tttctgtaga agcagaactg tcagcttggt ccttgagggt tccagaacgt 900
gtcagatgga gaagtccaag tttccatgct tcaggcaact tagctgtgta cagaagcaat 960
ccagtgtggt aataaaaaagc aaggattgcc tgtataattt attataaaat aaaagggatt 1020
ttaacaacca acaattccca acacctcaaa agcttggtgc attttttggg atttgagggt 1080
tttatctgaa ggttaaaggg caagtgtttg gtatagaaga gcagtatgtg ttaagaaaag 1140
aaaaatattg gttcgcgtag agtgcaaatt agaactagaa agtttttatac gattatcatt 1200
ttgagatgtg ttaaagtagg ttttccactgt aaaatgtatt agtgtttctg cattgccata 1260
ggcctgggtt aaaactttct cttagggttc aggaagactg tcacatacag taagcttttt 1320
tccttctgac ttataataga aaatgttttg aaagtaaaaa aaaaaaaatc taatttggaa 1380
atttgacttg ttagtttctg tgtttgaaat catgggttcta gaaatgtaga aattgtgtat 1440

```

```

atcagatact catctaggct gtgtgaacca gccaagatg accaacaatcc ccacacctct 1500
acatctctgt cccctgtatc tcttcctttc taccactaaa gtgttccctg ctaccatcct 1560
ggcttgtcca catgggtgctc tccatcttcc tccacatcat ggaccacagg tgtgcctgtc 1620
taggcctggc caccactccc aacttgacct agccacattc atctagagat ggttcctgat 1680
gctgggcaca gactgtgctc atggcaccca ttagaaatgc ctctagcatc tttgtatgca 1740
tcttgatttt taaaccaagt cattgtacag agcattcagt tttggctgtg gtaccaagag 1800
aaaaactaat caagaatata aaccacattc caggctgtctg tttctctccc atctacaggc 1860
cacactttta ctgtatttct tcatacttga aattcattct gctattttca tatcagggtta 1920
cagacttata aggggtgcatg ttccctaaaag gtgcataaatt attcttattc cgtttgctta 1980
tattgctaca gaatgctctg ttttggtgct ttgagttctg cagacccaag aagcagtgtg 2040
gaaattcact gcctgggaca cagtcttata agaatgttg cagggtgactt tgtatcagat 2100
gttgcttctc ttttctctgt acacagattg agagttacca cagtggcctg tcgggtccac 2160
cctgtgggtg cagcacagct ctctgaaagc aagaaccttc ctacctattc taacgttttt 2220
gccctctaag aaaaatggcc tcaggtatgg tatagacata gcaagagggg aagggtgtgc 2280
tcactctagc aaccatccct ccattacaca cagaaagccc tcttgaagca aaagaagaag 2340
aaagaaagaa agcttatctc taaggctact gtcttcagaa tgctctgagc tgaatgctct 2400
tgctcctttc ccaagaggca gatgaaaata tagccagttt atctataccc ttcctatctg 2460
aggaggagaa tagaaaagta gggtaaatat gtaacgtaaa atatgtcatt caaggaccac 2520
caaaacttta agtaccctat cattaaaaat ctgggtttta aagtagctca agtaagggat 2580
gctttgtgac ccagggtttc tgaagtcaga tagccattct tacctgcccc ttactctgac 2640
ttattgggaa agggagaact gcagtgggtg ttctgttgca gtggcaaagg taacatgtca 2700
gaaaattcag aggggtgcat accaataatc ctttggaac tggatgtctt actgggtgct 2760
agaatgaaaa tgtaggtatt tattgtcaga tgatgaagtt cattgttttt ttcaaaattg 2820
gtgttgaaat atcactgtcc aatgtgttca cttatgtgaa agctaaattg aatgaggcaa 2880
aaagagcaaa tagtttgtat atttgaata ccttttgtat ttcttacaat aaaaatattg 2940
gtagcaataa aaaataataa aaacaataac tttaaactgc tttctggaga tgaattactc 3000
tcctggctat tttctttttt actttaatgt aaaatgagta taactgtagt gagtaaaatt 3060
cattaaattc caagtttttag caaaaaaaaaa a 3091

```

<210> 291

<211> 518

<212> DNA

<213> Homo sapiens

<400> 291

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aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccggtggc cgtgcagtgt gtggctctgc cctggcaaga agagtttgtt ctgcggttca 180
tgccggagggt ggagcgactg atgaccctcg aaaagcagtc atcctgatgg ctctggctcc 240
agaggacctg agactcacac tctctgcagc ccagcctagt cagggcacag ctgccctgct 300
gccacagcaa ggaaatgtcc tgcattggggc agaggcttcc gtgtcctctc ccccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgtctgctat cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

```

<210> 292

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (479)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (489)
 <223> n equals a,t,g, or c

<400> 292
 ctcgtgccga attcggcacg agcaacgtcg ctccagctgc tcttgacgac tccacagata 60
 ccccgaaaggc atggcaagca agggcttgca ggacctgaag caacagggtgg aggggaccgc 120
 ccaggaaggcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180
 ggcggggcag aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240
 tgctaaccag gcctctgaca ctttctctgg gatcgggaaa aaattcggcc tcctgaaatg 300
 acagcagggga gacttgggtc ggcctcctga aatgayagca gggagacttg ggtgaccccc 360
 cttccaggcg ccatctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420
 tctgccccct cattaaaatt cacgttncca aaaaaaaaaa raaagggngg ccgcntagn 480
 gntccaagnt tagttacg 498

<210> 293
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 293
 ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
 gatccaacgt cgctccagct gctcttgacg actccacaga taccocgaag ccatggcaag 120
 caagggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgcatgga 180
 ccagctggcc aagaccacc aggaaccat cgacaagact gctaaccagg cctctgacac 240
 cttctctggyg atygggaaaa aattcggcct cctgaaatga cagcagggag acttgggtcg 300

227

gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa gggggggccc gtccccatt 469

<210> 294

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 294

gcacagaagg gggaggccaa agtgggtggg agcgcgtgct gttgggagtt gcttggaggt 60
tggcggcgcg gggctgaagg ctagcaaacc gagcgatcat gtcgcacaaa caaatttact 120
attcggacaa atacgacgac gaggagtttg agtatcgaca tgtcatgctg cccaaggaca 180
tagccaagct ggtccctaaa acccatctga tgtctgaatc tgaatggagg aatcttggcg 240
ttcagcagag tcagggatgg gtccattata tgatccatga accagaacct cacatcttgc 300
tgttccggcg cccactaccc aagaaaccaa agaaatgaag ctggcaagct acttttcagc 360
ctcaagcttt acacagctgt ccttacttcc taacatcttt ctgataacat tattatgttg 420
ccttcttgtt tctcactttg atatttaaaa gatgttcaat acactgtttg aatgtgcttg 480
taactgcttt gcttcttgag tagagccacc accaccatag ccagccaga tgagtgtctt 540
gtggaccaca gcctaagctg agtgtgancc cagaagccac gatgtgctct gtatccagac 600
acacttggca gatggaggaa gcatctgatt gagacatggg gtacaggtcn gnaatgcngt 660
ttgttttc 668

<210> 295

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 295

gctttgtcct ccagtggctg gtaggcagtg gctgggaggg agcggcccaa ttagtgctct 60
gcggcccgtg gcgagggcag gtccggggag cgagcgagca agcaaggcgg gaggggtggc 120

```

cggagctgcg gcggctggca caggaggagg agccccggcg ggcgaggggc ggccggagag 180
cgccagggcc tgagctgccg gagcggcgcc tgtgagtgag tgcagaaagc aggcgcccgc 240
gcgctagccg tggcaggagc agcccgcacg ccgcgctctc tccctgggcg acctgcagtt 300
tgcaatatga ctttggagga attctcggct ggagagcaga agaccgaaag gatggataag 360
gtgggggatg ccctggagga agtgctcagc aaagccctga gtcagcgcac gatcactgtc 420
ggggtgtacg aagcggccaa gctgctcaac gtcgaccccg ataacgtggt gttgtgcctg 480
ytggcgggcg acgaggacga cgacagagat gtggctctgc agatccactt caccctgatc 540
caggcgtttt gctgcgagaa cgacatcaac atcctgcgcg tcacaacccg ggccggctgg 600
cggastcctg ctcttgagaa ccgacgctgg ccccgcgggc agcgaggggc ccgagcagcc 660
cccggacctg cactgcgtgt ggtgacgaat ccacattcat ctcaatggaa ggatcctgcc 720
ttaagtcaac ttatttgttt ttgccgggaa agtcgctaca tggatcaatg ggttccagtg 780
attaatctcc ctgaacggtg atggcatctg aatgaaaata actgaaccaa attgcactga 840
agtttttgaa atacctttgt agttactcaa gcagttactc cctacactga tgcaaggatt 900
acagaaactg atgccaaggg gctgagttag ttcaactaca tgttctgggg gcccgagat 960
agatgacttt gcagatggaa agaggtgaaa atgaagaagg aagctgtgtt gaaacagaaa 1020
aataagtcaa aaggaacaaa aattacaaaag aacctgcag gaaggaaaac tatgtattaa 1080
tttagaatgg ttgagttaca ttaaaataaa ccaaatatgt taaagttaa gtgtgcagcc 1140
atagtttggg tatttttggg ttatatgcc tcaagtaaaa gaaaagccga aagggttaat 1200
catatttgaa aaccatattt tattgtattt tgatgagata ttaaattctc aaagttttat 1260
tataaattct actaagttat tttatgacat gaaaagttat ttatgctata aattttttga 1320
aacacaatac ctacaataaa ctggtatgaa taattgcac aaaaaaaaaa aagggggggc 1380
gctcgcgatc tagaaactag                                     1400

```

<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

```
gtcagcccga gcccggtgcr ggcctttaag ggccgggggc gtgtagcggg cccgccccct 60
ccccgcggcg cccgcagtcg gttaagtgcg agccccggcg caggggccgg atctggccgg 120
gggccggcg cggtgtggga gcggcgcgtc atgtacacca tcaccaagg gcccagcaag 180
ctggtcgcg agcgccgcac aggtcccacg cagcagcagg tggagggccg gctcggcgag 240
ctcctgaaat gccggcagcc cgcgcgcgcg acctcgcagc cccgcgggc gcagccyttt 300
gcgcascgcc gggaccctgg cccctgtcga gtccagggcc aaggcttgtg ttcaatcgtg 360
tgaatggccg gcgggcccc tccacgtccc catccttcga ggggaccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
agctggatgg tggcccagcc ggtgagggcg ggccaaggcc tgtgcagtac gtggagagga 540
ccccaatcc ccggctgcag aactttgtgc ccattgacct agacgagtgg tgggcgcanc 600
agttcctggc gagaatcacc agctgttcct agtggtgct gggagggggc gctgctacac 660
ggccgacctg tcgccaggag agaagcatgg cgcctgccc acccactgcg cctggctggg 720
tgccggccac acctgaagtg ccagcatttg gacttttgca cctttttttc ccttggcccg 780
gctgtcccaa ccaagctgcc atgccagg gccaaccgt ctgacctcag ccctgctcac 840
tgtgccagg gaccagcna caccctggg gctggcagg aggagctcca ggctaataaa 900
gtggagaaac tgtcaaaaaa aaaaaaaaaa aancctcagg gggggcccg ncccaattnc 960
```

<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

```
caaaagctgg agctccaccg cggtgacgnc cgctctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagctc gtgccngncc tttggagcag agaggaggca atggccacca 120
tggaagaaca ggtgatctgc gccctggtcc tgggtgtccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg cccccgtga aagacagaat tgtggttttc 240
ctggtgtcac gccctcccag tgtgcaaata agggctgctg tttcgacgac accgttcgtg 300
```

```

gggtcccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtgtgaat 360
tttagacact tctgcaggga tctgcctgca tcctgacgcg gtgccgtccc cagcacggtg 420
attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480
tgcctcggct cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaaggcg gccgtctaag 600
aggatccaag cttacgtaac gcgtgcatgc gaaggtcata gctottctat agtgtca 657

```

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

```

gcagccaggc tctcaggga ggtccatgct gcttggcctg agttcaaggc tttctgcctg 60
tagcctggac tcccgtggac ccccgtaggc aggtggcttc cccgtggcat ctccacaccg 120
cctctgcctg cccctgtgga ctgatgctat cgcgcacct cccacgacct caccctgagc 180
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatcccca ctctcctgag 240
agcagtggc acagcgccg gcgctctgc tgagaaggca gagaggcagg ctcaggcctc 300
agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggcccctt cagaattcct 360
caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca gttgagggga 420
cttagtctca atcccaggct cctcttgact ctgggcagct ttaatcaggt tgggcagcct 480
ctgctacagc gtggagtggg atggctctct tccctcagcc acgcgccttg tgaggacaga 540
ggtgggggag tgggaagtgg gaagtcacca gagaacagga gagggatttg agggcgcgac 600
cccagcgctc tccacggacc agccagaggg actggagcca ggtgtgcatg ggttcaaggc 660
cctggccctg cccagcctct gtcttgggag ctcagcccca gggttcggtc gtcagcagtt 720
tcccaagaac aagatgtgat ggcattctgct gctgaaacct tgatgaggac caggccccct 780
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac tc 892

```

<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

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```

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gctttcgcatt gattggaagg aggtcgggtg aatgcctgcc aagccgtcgt tggctctgga 240
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cagagccaga gaaattgact gctcgagtat actgggaccc accgttgggtg aaagattctg 540
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nann 1624

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<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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ggatccggag ccgcccgaag ccggtgcgc agcccccctgc gcccgcgggtg ccccgacat 120
gtccttccgc aaagtgggtcc ggcagagcaa attccggcat gtgttcgggc agccggtcaa 180
gaacgaccag tgctatgagg acattcgcgt gtcccgtgtt acctgggaca gcaccttctg 240
cgccgtcaac cccaagttcc tggcgggtgat tgtggaggcc agtggagggg gtgcctttct 300
ggtgctcccc ctaagcaaga cgggcccgcgt tgacaaggcc taccgacgg tgtgtgggca 360
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tcggaggact gcacggtcac ggtgtggcac atcccagaga acgggctgac ctcccgcctg 480
acagagccgg tgggtgtact ggaggggcac accaagcgag tgggcatcat cgcctggcac 540
cccacggccc gaaacgtgct gctcagtgcg ggctgcgaca acgtgggtact catctggaat 600
gtgggcacag cggaggagct gtaccgcctg gacagcctgc accctgacct catctacaat 660
gtcagctgga accacaatgg cagcctgttt tgctcagcat gcaaggacaa gagcgtgcgc 720

```

```

atcatcgacc cccgtcgggg caccctggtg gcagagcggg agaagggtca tgagggggcc 780
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atgagcgcgc ggcagctggc gctctgggac ccagaaaacc tcgaggaacc catggccctg 900
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gacctctgag ggacctctc cccgaccact gccagccct ctgctccctc cccagaggag 1860
gcgggagggt gggctctata ttttcattcc aaataaaatt ctctttctaa aaaaaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacgga cgtcgtggg 1969

```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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ggagacggac gcggggctgt acacctgcaa cctgcacat cactactgcc acctctacga 120
gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180

```

```

ggcgagaagg aggtgctggc ggtggcgcg cggcaccgct ytnctgacct gcgtgaaccg 240
cgggcacgtg tggaccgacc ggcacgtgga ggaggctcaa cagggtggtgc actgggaccg 300
gcagccgccc ggggtccccg acgaccgcg ggaccgcctg ctggacctct acgctcggc 360
gagcgccg cgctacggggcc ctttttctgc cgamecgctg gctgtggg cggtatgcctt 420
taagcgcggt gactttctcac tgcgtatcga gccgctggag gtcgccgacg agggcaccta 480
ctcctgccac ctgcaccacc attactggcg cgcgccaca acgtcatcaa tgtcatcgtc 540
cccagagacc gagcccactt cttccagcag ctgggctacg tgcggccac gctgctgctc 600
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ctcggaccag aagtcgggaa agtcaaagg gaaggatgtt aacttggcg agttcgctgt 720
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catcctgaag gagaggcg agctggccca cagccccctg cctgccaagt acatcgacct 840
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gagtgaagtt ggtttggggt ggctgtgtt gccactctca gcacccaca tttgcatctg 1740
ctggtggacc tgccaccatc acaataaagt ccccatctga tttttaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaatg 1860
ggaataaaaa taacaaaaaa at 1882

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<210> 302

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 302

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gattccaacg catcccagtc cctgtgtgac atcatccgcc tgagccggga gcagatgatc 60
caagtccagg acagcccaga gcctgaccaa ctgctggcca ccctggagaa gcaggagacg 120
attgagcagc tcttaagcaa catgttcgag ggggagcaga gccagtctgt catcgtcagt 180
gggatccagg tgctgctgac mctgctggag ccaggaggc cgaggtccga gtccgtgacc 240
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cctcttcttc cattatgtct tcaacaactt cttgcatgcc caagtagagg gatgcgtgag 600
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gagaacgacc gtgtacagtg tgcgggaggc cctcggaag gctacatggg tcacctgaca 780
agagtggccg ktgccctggt gcagaacacg gagaaggggc ccaatgcaga gcagctgcgg 840
cagctgctga aggagctgcc cagcgagcag caggagcagt gggaagcctt cgtatcgggg 900

```

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ccccctggcgg agaccaacaa gaagaacatg gtggacctgg tgaacaccca ccacctacac 960
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cagttttacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacc 2804

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<210> 303

<211> 3859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<400> 303

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agggaagtaa gaggaagca tatgtggagg catggaagga tggaagaaac agcctggaga 120
tcctgggaaa ctgctaccag ttcagagagg ggtgtggggg gttggtggca ctatgtggcg 180
cgtctgtgcg cgacgggctc agaatgtagc cccatgggag ggactcgagg ctcggtggac 240
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taaacaaatg tgtaattttg agtacagaat tcaacagtta cctccaaaaa agaaacattg 2880

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tcaatatgat ccaaactctg ttcaaactt caaaacttca aagataattc atctttcgct 3780
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```

<210> 304

<211> 3378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3365)

<223> n equals a,t,g, or c

<400> 304

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agtggagatc ctgcagcacg ttatcgacta catcctggac ctgcagctgg cgctggagac 180
gcacccggcc ctgctgaggc agccaccacc gcccgcgccg ccacaccacc cggccgggac 240
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ggtgaacaag cagggcgaca gcattctgtg ccgctgagcc gcgctgtcca ggtgtgcggt 360
cgctgagcc cgagccagga gcactagaga gggaggggga agagcagaag ttagagaaaa 420

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```

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<213> Homo sapiens

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 <222> (2166)
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 <221> misc feature
 <222> (2168)
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<210> 310

<211> 2086

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 310

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cgctcccca cgccgtcaga gatcctcagc aacgcgggtc tcaggtttga ggtgggtccc 180
tccaagttha aagagaagct ggacaaagcc tccttcgcta ctccgtatgg gtacgccatg 240
gagaccgcca agcagaaggc cctggagggtg gcccaaccggc tgtaccagaa agacctgcgg 300

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gcccccgacg tggtcattgg agcggacacg atcgtgacag tcgggggggct gattctggag 360
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aagaaagcaa aagccaaaaa aaaaaaaaaa aaaaatttgg gggggg 2086

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<210> 311

<211> 2163

<212> DNA

<213> Homo sapiens

<400> 311

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tccagcccta cctggcgcg cgcccagc tgagctgag cgtgtacacc acgacgaggt 180
cccacctggg tgctgagaac aacatcgacc tggctctgaa tgtggaagac tttgatgtgg 240
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agcagttcgg gttttcagag aaagatgctg atgaggtgaa aggaattttt gtagatacca 840

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aaa 2163

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<210> 312

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<400> 312

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ggtcctctca ggaaaggggg gcgttgggaa aagcaccatc tccacggagc tggccctggc 180
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tcggttcccc ggccctgcag gggcaggccc aggcagcgtc agcgggagag cttctccccg 1020
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aaaaaaaaaa aaaaaan                                     1397

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<210> 313

<211> 4106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 313

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tttctccatc tatcctgtat cctccaccgt acagccagta gcagctgcgg ctactgtggg 180
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tgaaaaggagt tttgcgagtg ggagtattgg caaaaggatt acttctccga ggagatagaa 1860

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<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (524)
 <223> n equals a,t,g, or c

<400> 314
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<210> 315
 <211> 1938
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1270)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1455)
 <223> n equals a,t,g, or c

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 gaatgccacg gacagggtaa cccagtgcac gtacaaacgc atcggtgcc catggcacgg 540
 ccccttccat gagctgacgg tgcacgaggg tgcgtgcgcc caccgacca agacaggcag 600
 tgagctgatg gagatcctgg atgggatgga ccagagccac cgcaaggaga tgcagctgta 660

```

caacagcatc ttcagcctgc tcagcttcga gaagattggc tacacagagg tccagttccg 720
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gctgaaccag acgtgggtcc tgaaggctcg agtcaacgac tcggagcgta accccaacct 840
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agggtcagc aggcattttc ggaaagcagg gtgaaattgt ctcttcccag gaaaaagatt 1860
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cgcgatctag aactagtc 1938

```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

```

gcggccgccc ggcccccga gcagcccgag ccggggcgca cagccggggc gcagncgcgc 60
ccccgcgcg gattgacatg atgtttccac aaagcaggca ttcgggtccc tcgcacctac 120
cccagcaact caaattcacc acctcgact cctgcgaccg catcaaagac gaatttcagc 180
tactgcaagc tcagtaccac agcctcaagc tcgaatgtga caagttggcc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgcacaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtcctgccct 360
acctctccca agagcaccag cagcaggtct tgggagccat tgagagggcc aagcaggtca 420

```

250

```
ccgctcccga gctgaactct atcatccgac agcagctcca agcccaccag ctgtcccagc 480
tgcaggccct ggccctgccc ttgacccac taccogtggg gctgcagccg ccttcgctgc 540
cggcggtcag cgcaggcacc ggccctcctct cgtgtgccgc gctgggttcc caggcccacc 600
tctccaagga agacaagaac gggcacgatg gtgacacca ccaggaggat gatggcgaga 660
agtcggatta gcagggggcc gggacagga gggtgggarg ggggacarag gggagacaga 720
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ccatagtatt atgktggccc gggggggggc ccancan 818
```

<210> 317

<211> 837

<212> DNA

<213> Homo sapiens

<400> 317

```
gggcacgagc gacatggagc tgttcctcgc gggccgcccg gtgctggtca ccggggcagg 60
caaaggtata gggcgcgga cggccaggc gctgcacgcg acgggcgcgc ggggtggtggc 120
tgtgagccgg actcaggcgg atcttgacag ccttgccgc gagtgcccgg ggatagaacc 180
cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc 240
cgtggacctg ctggtgaaca acgcccgtgt cgcctgctg cagcccttcc tggaggtcac 300
caaggaggcc tttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcrca 360
gattgtggcc aggggcttaa tagccggggg agtcccaggg gccatcgtga atgtctccag 420
ccagtgtcc cagcgggagc taactaacca tagcgtotac tgcctacca aggtgcccct 480
ggacatgctg accaaggtga tggccctaga gctcggggcc cacaagatcc gagtgaatgc 540
agtaaaccac acagtgggtg tgacgtccat gggccaggcc acctggagtg acccccacaa 600
ggccaagact atgctgaacc gaatcccaact tggcaagttt gctgaggtag agcacgtggt 660
gaacgccatc ctctttctgc tgagtgaccg aagtggcatg accacgggtt ccactttgcc 720
ggtggaaggg ggcttctggg cctgctgagc tccctccaca cacctcaagc cccatgccgt 780
gctcatccta cccccaatcc ctccaataaa cctgattctg ctgccccaaa aaaacga 837
```

<210> 318

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<400> 318

```

gggtctggag agcaggactg ggtcaacagg cccaagaccg tgcgcgacac gctgctggcg 60
ctgcaccagc acggccactc ggggccttcg agagcaagtt taagaaggag cgggccytga 120
ctgcaggcag gttgttggtt ttcgaggcca acggggccaa cgggtctaaa gcaggtaggg 180
gcggctgtga agtgaggggg tctaggggag aaaaggggac ggagagcaga ggaaggggtg 240
ttctttggat tcaccatttt accccagccc agaaacaaca aacacccac ttctgatct 300
cctgaggcgg aaccagtgc tggtggaac gtgttcattg ctgaagcagc ataacaaga 360
atgagtcaga ctgggctgat acgctctgaa cacgggggtt tcctttccca gcacattctt 420
ggatgggagc atgagggcac cagtcacctt twaacctatt gggggacatt agcagtcaca 480
tgttgagtg aaacgaggta cttttgtgca tgtktaaaa caggcagtta caagcgtgtc 540
attttcagtg gctccatttt aaatcagtc gctgcctcag aatcccgtac gcctgaagg 600
tttaagttgc atgtgcacct gaaactcgta tatgagtatt ttctgtctgt gcttttagag 660
aggaggaatt ctgtaacgac ttttgtttcg ggtaggaag agaagatct ctttcagtgc 720
accgccactt atgttaacct tttcctttta tttctttgtg tttccagttg caagaacagc 780
aagggaaagg aagccctctc cagaaccaga aggtgaagtc gggcccccta agatcaacgg 840
agaggcccag ccgtggstgt ccacatccac agaggggntc aagatcccca tgactcctac 900
atcctctttt gtgtctccgc caccaccac tgctcacct cattccaacc ggaccacacc 960
gcctgaagcg gcccagaatg gccagtcccc catggcagcc ctgatcttag tagcagacaa 1020
tgcagggggc agtcatgcct caaaagatgc caaccagggt cactccacta ccaggaggaa 1080
tagcaacagt ccgccctctc cgtcctctat gaacaaaga aggctggggc ccagagaggt 1140
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ggactttctc ctggcaacca gtgccccgct gtgctgcacc ctctgccacg agcggctgga 1260
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aagataaaca gagggagtag tgagaggctt ttccagtggg gaaaatgcct ctgtgggtca 1380
atgtccctgg gcttntnaag gggaattcaa catcttcttg ggtgtaagtg aaaaaaaaaa 1440
aaacntgg                                     1448

```

<210> 319

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 319

```

tcgaccacg cgtccggaag taatgatgac aaaatactct aacctttcct tggagagtca 60
taacttctcg ctgactgctt cacctcttac aagtctgccc atcccggaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagtg ccacagaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagaggaaa aggaacgaag 420
gggcacattt aatttcggag tccctgaagt tcagagaaaa aacaaacat tgatcactta 480
tgtgggggat tccgttgtct tgggtgtgta atgcgcgacac tgtgctcctt taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600

```

252

```

tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaagtgt 720
tgaactgggt gtgataagtt atttggtgcc cctcaaacca tttcttgga tagttgttga 780
agttattctt ttagtggcta ttattctgtt ttgtgaaatg cacacccaaa agaaaaagat 840
gcacatggat gatgggaaag aatttgaaca agttgaacag ttgaaatcag acgatagcaa 900
cggcatagaa aataatgccc ccaggcacag aaaaaatgaa gctatgagcc agtgaaagca 960
aaacatcgtg tcaagagtaa tgggaagatg tataagtttct acttcagctt tgtttatgtt 1020
tcctgtgaag aacatctgag tttttatttt tacaaggatg aaaagtttat gtgatatgct 1080
cagcagtagt tttgcaataa tacctgctat ctcatagcca aagatatatt ttccttctgt 1140
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agaaaacttt tttgccattt gccttgkttt tttttctaata tatgcttact atgtgtagaa 1380
atatttgtaa taattttcat gtaatgkta ccctctgtca tattggataa aaacatcttt 1440
attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc 1493

```

<210> 320

<211> 609

<212> DNA

<213> Homo sapiens

<400> 320

```

ggcacgagtg gcttctgacc ctttcttccg ccactaccgc cagctcaatg agaagctagt 60
gcagctcatc gaagactata gccttgcttc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtcctgc aggtgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
tccacactgg gcatccagga gaagtacctg gcaccctcga accagtcagt ggagcaggaa 300
gccatgcagc tgtagcaaca aggtggaccc tggagagcag gatgcataat ccagcactgg 360
ggaaaagtga ggctcctgat gcaggctgca gacccaagag caagtcctcc cagccagagc 420
tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaaag cagaacaccc cccatactgt cagtgggtgc cgtgagctct ggccctgcca 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct
609

```

<210> 321

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 321

```

tagtggatcc ccggggctgc aggaattcgg cagcagcaga gcttcgctct tgetgctccc 60
ctgaggtgaa ctgaagccag cagccccgca tcatgtcaaa gctcggccgg gccgcccggg 120
gcctcaggaa gcccgaggtc ggcggtgtra tccgggcgat cgtgcgggca ggcctggcca 180
tgccccgggc ccactaggc ccagtgcctg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaaggaagg cattcctctg cctaccaaga 300
tttttagtgaa gcctgacagg acatttgaaa ttaagattgg acagccact gtttcctact 360

```


253

```

tcttgaaggc agcagctggg attgaaaagg gggcccgga aacagggaaa gaggtggcag 420
gcctgggtgac cttgaagcat gtgtatgaga ttgcccgnat caaagctcag gatgaggcat 480
ttgcctgcag gatgtacccc tg                                     502

```

<210> 322

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<400> 322

```

gggcatccag agtacgggtc gagcccgggc catggagccc ccctggggag ggggcaccag 60
ggagcctggg cgcccggggc tccgccgcga ccccatcggg tagaccacag aagctccggg 120
acccttccgg cactcttgga cagcccagga tgctgttggc caccctcctc ctccctcctc 180
ttggaggcgc tctggcccat ccagaccgga ttatttttcc aaatcatgct tgtgaggacc 240
ccccagcagt gctcttagaa gtgcagggca ccttacagag gcccctggtc cgggacagcc 300
gcacctcccc tgccaactgc acctggctca tcctgggcag caaggaacag actgtcacca 360
tcaggttcca gaagctacac ctggcctgtg gctcagagcg cttaacccta cgctccccctc 420
tccagccact gatctccctg tgtgaggcac ctcccagccc tctgcagctg cccgggggca 480
acgtcaccat cacttacagc tatgctgggg ccagagcacc catgggccag ggcttcctgc 540
tctcctacag ccaagattgg ctgatgtgcc tgcaggaaga gtttcagtgc ctgaaccacc 600
gctgtgtatc tgctgtccag cgctgtgatg gggttgatgc ctgtggcgat ggctctgatg 660
aagcaggttg cagctcagac cccttccctg gcctgacccc aagaccgctc ccctccctgc 720
cttgcaatgt caccttggag gacttctatg gggctctctc ctctcctgga tatacacacc 780
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ctactgtccc tgaagcccca gggccactgc cctcactgcc cctagagcca tcactattgt 2100
ctggagtggg gcaggccctg cgaggccgcc tgttgcccag cctgggggcc ccaggaccaa 2160

```

```

cccgagagccc ccctggaccc cacacagcag tcctggccct ggaagatgag gacgatgtgc 2220
tactggtgcc actggctgag ccgggggtgt gggtagctga ggcagaggat gagccactgc 2280
ttacctgagg ggacctgggg gctctactga ggctctctcc ctgggggctc tactcatagt 2340
ggcacaacct tttagagggt ggtcagcctc ccctccacca ctctctctcc tgtccctgga 2400
tttcagggtgac ttgggtgggc tcccgttgac cctatgtagc tgctataaaag ttaagtgtcc 2460
ctcaggcagg gagagggctc acagagtctc ctctgtacgt ggccatggcc agacacccca 2520
gtcccttcac caccacctgc tccccacgcc accaccattt ggggtggctgt ttttaaaaag 2580
taaagttctt agaggatmaw aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 2630

```

<210> 323

<211> 1874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1735)

<223> n equals a,t,g, or c

<400> 323

```

tcgacccacg cgtccggccg gggcgccctc cggaagcttt tccaactttc cagaagtttc 60
tcgggagggg cgggaggagg ggaacgccat atatatagacct ggagagccgg gagcgcgagg 120
agtggaatcg gtccgcggct cgagtgggtc tctagtccgg cgcagccgc cgggccagc 180
cctcacaggt ccttcgtggt gcataccatc cgcctcccag ccatgcgctt cctcctgctt 240
accagcactt gctgcctcct ggccatggcc ctggctgccc aggtgaagaa gccagcggcc 300
ccaggcacag cagagaagct garcccaaaa ggggccacgc tggcagagcg cagtgtctggc 360
ctggccttca gcctgtacca ggccatggcc aaggaccagg cgggtggagaa catcctgctg 420
tcgcctgtgg tgggtggcctc atccctgggg cttgtgtcgc tggggggcaa ggccaccaca 480
gcgtcccagg ccaaggcggt gctgagtgca gagcagytgc gtgatgagga ggtgcacgcg 540
ggsctkggcg agytgttgcg agctttcagc aacagcacgg cgcgcaacgt gacctgaagc 600
tgggcagccg cctgtatggg cccagctcgg tgarcctcgc ggaggacttt gtgcgcagca 660
gcaagcagca ctacaactgc gagcactcca agatcaactt ccgcgacaag cgcagcgcgc 720
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ataccgttgg ggttacgatg atgcaccgca caggactcta caactactac gacgacgaga 960
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tcctggttcg agacacccag accggtctcc tgctgttcat tgggcgcctg gtccggccca 1440
agggtgacaa gatgcgagat gagctgtagg gccccaggga tggcaggagg cagcccaagg 1500
ctcctgagac acatgggtgc tatggggggg agctgaggtg ccgaccttgg atgtgccatg 1560

```

```

gggtgggggt gggaaaacag agcaggcttc ctggatgtct gagcagatct tcccaggcag 1620
aattgactct gtctggatgt gggccccag ataccgtgat gctgagcccg gacacscac 1680
attctgrggr ccctgggggc agttggcgtg tcttgccctc agcatcctgg gattnaagcc 1740
tgccttcaat cagtgttcat atttatagcc aagtgtcttc tcatctgtga gacagaatcg 1800
agctargggg cttcagccca gccctgtgga atggggaccg tcttttcctt accctaccat 1860
cacctcagcc ctaa                                     1874

```

<210> 324

<211> 2325

<212> DNA

<213> Homo sapiens

<400> 324

```

aagaaatgca gatgagtgtg aaacatctgt tctcaattat gttgatctgt gtgcgcagta 60
ctggagcatt taccatttca tgttgagcct caaatgcttg ttttctgggg tccacaaaag 120
acagttttat acattttgag ttgttcataa agtttgtctt gtgatatgct tggcacttaa 180
agacaaatatt ttctggtagt aaaagtctag atttattact atgtcatgaa acacagtaca 240
ttcaaatcaa acggcagttt tctttctaag taaatgattt ccagtcactt aaaagggtgg 300
caagatgaga taaagacatt ttgatacagt aattgttttg gttgggtttt catgtcagtt 360
tatgtttgac taaagctctc ttcatatgca ggtttataaa tttgttaggt ctgttgctcc 420
atgattaaac atgsagtgcc tctctctctg tttaatattc tgcaggctcat tgtaacctgc 480
taggcaaagt cacaacattg cattaaagag gtgatatgct tgctaataatc actgttttaa 540
aggacgtaca gttaaaggaa tattaagtgg gagaaagcct acaaggcttt tagaatatta 600
tcagtatctt catttctggt attcagatgt tatgtgataa aacacatttt ttttggtctt 660
cccagataca ctatatattt gttcaagggt aaatctataa aatgtatata ctttattttg 720
tggttttgct atttataaat ttaatgtttt aactgttgct catttatggt ttgttttggt 780
tggtggtggt catctgtata tcaccatggt aatttgtaat ggaagtgcac ttcgtagtgt 840
atattgttac tgacattaaa atactttata gcattgtctc tgagcaaaag ctagtattta 900
attgtacaaa tgaataagca agttacatgt tattgtttgc tcttgacagg gtaggcctct 960
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ccatgcatga catgagatct gcaaaactgga ttttagccac cgtatttatt tagtcaaaaa 1080
aattgtccat tgtagcagac ccgaaaacct ttttgctgtg acatgaaacc atgttattct 1140
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tgaatatgat ggaaaagcaa cattttggtg gtgagactat tgttaaaata aatttgagaa 1920
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cttgtctgtg gtgctgtttt tttccccact gcagtggact tatgctgttt tcatgttttag 2040
aaacaaaaag gtttcatgtg attcatgtgt aagatgcaca gtatttgaca tcctgattat 2100
gtaatcccta ttccatctat ccagtcctac acttatgggt ggccctcaat ctattgcatt 2160
tatgataatg tattatatct agttgagttt aatatttttt tattagcctg taaataaaga 2220
tggcatcttc tacattaaaa tgatattgat ctcatttttt taaataaaca ttttgtttcc 2280

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ttgacgttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 2325

<210> 325

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 325

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ggagagcccc gagctgctga accctgagcc caggagactg agcccagagt tgaggctact 180
gccctatatg atcactctgg gcgacgccgt gcacaacttc gccgacgggc tggccgtggg 240
gcgcgccttc gcgtcctcct ggaagaccgg gctggccacc tcgctggccg tgttctgcca 300
cgagttgcca cagagctgg gggacttcgc cgcttgctg cagcgggggc tgtccgtgcg 360
ccaagcactg ctgctgaacc tggcctccgc gctcacggcc ttcgctggtc tctacgtggc 420
actcgcgggt ggagtcagcg aggagagcga ggcctggatc ctggcagtg ccaccggcct 480
gttcctctac gtagcactct gcgacatgct cccggcgatg ttgaaagtac gggaccgcg 540
gccctggctc ctcttcctgc tgcacaacgt gggcctgctg ggcggtgga ccgtcctgct 600
gctgctgtcc ctgtacgagg atgacatcac cttctgatac cctgccctag tccccacct 660
ttgacttaag atcccacacc tcacaaacct acagcccaga aaccagaagc ccctatagag 720
gccccagtcc caactccagt aaagacactc ttgtccttg aaaaaaaaaa aaaaaaaaaa 780
aaaaa 785
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<210> 326

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 326

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gacgacagaa gggtacggct gcgagaagac kacagaaggg tacggctgcg agaagackac 180
agaaggggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagagggg 240
acgn 244
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<210> 327

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 327

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tcccaccctc ccgccccgcg gcagccctag ctccctccac ttggctcccc tggctccgct 180
cgctcggccg ggagctgctc tgtgcttttc tctctgattc tccagcgaca ggaccggcg 240
ccggcactga gcaccgccac catggggaag ggggttggaac gtgataagta tgagcctgca 300
gctgtttcag aacaagggtga taaaaagggc aaaaagggca aaaaagacag ggacatggat 360
gaactgaaga aagaagtttc tatggatgat cataaactta gccttgatga acttcatcgt 420
aaatatggaa cagacttgag ccggggatta acatctgctc gtgcagctga gatcctggcg 480
cgagatggtc ccaacgccct cactccccct cccactactc ctgaatggat caagttttgt 540
cggcagctct ttgggggggt ctcaatgtta ctgtggattg gagcgattct ttgtttcttg 600
gcttatagca tccaagctgc tacagaagag gaacctcaaa acgataatct gtacctgggt 660
gtggtgctat cagccgttgt aatcataact ggttgcttct cctactatca agaagctaaa 720
agttcaaaga tcatggaatc cttcaaaaac atggtccctc agcaagccct tgtgattcga 780
aatggtgaga aaatgagcat aaatgcggag gaagttgtgg ttggggatct ggtggaagta 840
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gcttctgggc tgggaaggag ccagaccccc attgctgcag aaattgaaca ttttatccac 1140
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gagtacacct ggcttgaggc tgtcatcttc ctcatcggtg tcatcgtagc caatgtgccg 1260
gaaggtttgc tggccactgt cacggtctgt ctgacactta ctgccaaacg catggcaagg 1320
aaaaactgct tagtgaagaa cttagaagct gtggagacct tgggtccac gtccaccatc 1380
tgctctgata aaactggaac tctgactcag aaccggatga cagtggccca catgtggttt 1440
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ggtttctgcc acctctttct gccagatgaa cagtttctctg aagggttcca gtttgacact 1980
gacgatgtga atttccctat cgataatctg tgctttgttg ggctcatctc catgattgac 2040
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atcatggtca caggagacca tccaatcaca gctaaagcta ttgccaaagg tgtgggcac 2160
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acctccgagc agctggatga cattttgaag taccacactg agatagtgtt tgccaagacc 2340
tcccctcagc agaagctcat cattgtggaa aggctgccaa agacagggtg ctatcgtggg 2400
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<210> 328

<211> 505

<212> DNA

<213> Homo sapiens

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<220>
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<400> 328
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tgccctacaca ttctactac ccttggaat tctaactcag atgtgggtag cagcttcctc 120

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aaagagaaac tttttcccag ctgggtgctg tggctcacac ctgtgaatcc cagccctttg 180
gnaggctgna gtgggcagat cgcttgagcc caggagtttg agatcagcct gggcaacatg 240
gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtggtggtg cgcgcctgtg 300
antcccagct actagggagg ctgaagggtg gnggnttgnt tnagcccagg aggttgaggc 360
tgcattnggc tgggattcaa accatgttac tccntgacca ngtgngncct ntttcaaann 420
angnaagggg aggggnaagn aaaggaaaag nngnagggng atgccgntnn tngnntngna 480
gnngnatnan ntaaaaattt gggggg 505
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<210> 329

<211> 559

<212> DNA

<213> Homo sapiens

<220>

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<222> (4)

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<222> (6)

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<222> (335)

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<222> (505)

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<220>

<221> misc feature

<222> (551)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 329

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ttagttgcac tagccatatt tcaaatactt gatggataca tgtggctagt ggctaacata 180
agggatagca cagatataaa acatttcctc ccaaagtgtt gggattacag gcatgagcca 240
ccgcgccccg cctatcatat gaattttgag ggaacacaat catgcagtct gtagcagatg 300
gtaataggct gatataattac acttgttgat gtaanctgga tangtttctt ttttctccaa 360
ggacagcttt ttnaatatatt aacantncca ttaatttttc agtttccggg agaattttat 420
aattttaaatt tgccgactta ngganaancc aattgggncca accattacaa tanattttta 480
attccgntta aaaaatccca ccngnggggg aattccgctt aaaattttat tttccattat 540
tcccaatggc ntnaattta                                     559
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<210> 330

<211> 467

<212> DNA

<213> Homo sapiens

<220>

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<221> misc feature

<222> (99)

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<222> (263)

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<222> (275)

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<220>

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<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

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<222> (330)

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<223> n equals a,t,g, or c

<220>
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<400> 330
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tgtcagtcag tgcgtgaagc caccaccgcc tccggtgna tgaatgcagc ctccccccga 120
ctggncagac accgntgnaa cgggnattat ttcacctca gagagaggct gatcactatg 180
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgacaga ttagagttgc 240

ccatatcgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300
gagtnttaaa tgccttaaag taattaaaan cgggggcaat nccnttttac ggatgttttg 360
ctgggggtttc cgtttttaac caacattttt ntnggggncc gnccacaaat tttgggggtg 420
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<210> 331

<211> 418

<212> DNA

<213> Homo sapiens

<220>

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<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

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<220>

<221> misc feature

<222> (250)

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<220>

<221> misc feature

<222> (257)

<223> n equals a,t,g, or c

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<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
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<222> (298)
<223> n equals a,t,g, or c

<220>
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<222> (338)
<223> n equals a,t,g, or c

<220>
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<222> (344)
<223> n equals a,t,g, or c

<220>
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<222> (353)
<223> n equals a,t,g, or c

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<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<400> 331
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aatgtngcca ntgtctgtct gcagattggc taccacaactg ttgcatcagt accccattct 180
atcatcaacg ggtacnaacg antcctggcc ttgtctgtgg agacggatta caccttccca 240
cttgctgaan aagtcanggc ttcttggtg atccatctgc cttngtggct gctgcccngt 300
tggtgctgc caccacaact gtcctgctg ctgctgcnc ccancttaag ttnaaacca 360
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<210> 332
<211> 486
<212> DNA
<213> Homo sapiens

<220>
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<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

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<220>

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ccatccggta cccctaccgt ccagatacca tcacccacgg gctcatggct ggggtcacca 180
tcacggccac cgtcatcctt gtctcggccg gggaagccta cctggtgtac acagaccggc 240
tctattctcg ctcggaactt aacaactacg tggctgctgt atacaagggt ctggggactt 300
cctgtttggg gctgccgtga gccagtctct gacagacctg gccaaagtaca tgattgggcg 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cggatcaatgc tcgtnatgtg 420
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catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatattt cctcattcat 180
taccccaaca ataataggac tccctatcgt aattattntc actatgtttc caagcattga 240
tatncccatc acctaccgcn ctnntcaa 268

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cccggaagcg gaagtggaag aaagttctag tggcttgaga ttaagcctga tcaagatgac 180
aacctcccaa aagcaccgag acttcgtggc agancccatg ggggagaacc agtggggaac 240
ctggctggga ttggtgaant cctgggcaag aaactggaag aaagggtttt gacaaggcta 300
tnttgtcttg gccatttctg gtgctaaaaa anataaaaaa tctcccgga tggtgaaaan 360
ctttttgggc caccacaacat cccgaatgtc cgatgtcca aaatgtgcan cctcttttat 420
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caattcactg gccgtcggtt tacaacgtcg tgacnnggaa aacntnnaat ncttccggct 180
cgtatgttgt gtggaattgt naggcgataa caattcacac aggnancagc tataaccatg 240
attnnnccaa gntcgaaatt aacntnact aaaggggaca aaagtngggg ctccacg 297

<210> 336
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ctgggtgncg acggatgggtg atgcccngga actttatgaa aaaccacgt tgagcccgac 180
tattngngat attccgtcgn tgcntggggc tggccccgtg gtatggcaaa aaagcaccgg 240
gttnaacaag ntcaaccatg naagngtttc anctnaatgg ggggggncccc gtaacccaat 300
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tgntnggcct tttttttttn gtttgt 386

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caccactatg taccctggca ttgccgaccg aatgcagaag gagatcacgg ccctagcacc 120
cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaatactct gtctggatcg 180
gtggctccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacggtgaag ccgggccttc cattgtccac cgcaaagtct ttcttaaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagtt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattgggt aaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
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<210> 338

<211> 623

<212> DNA

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gcagatgagt ccaactgggag cattgccaaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcattgggg gtgtcatcct cttccatgag acaactctacc agaaggcgga tgatgggcgt 300
cccttcccc aagttatcaa atccaagggc ggtgttgttg gcatcaaggt agacaagggc 360
gtgggtcccc tggcagggac aaatggcgag actaccaccc aagggttgga tgggctgtct 420
gagcgtgtg cccagtacaa ngaaggacgg agctgaactt ggccaagtgg cgtttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcatac tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcancagaa tgcattgggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa                                     623
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<212> DNA

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<220>
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 tcaactgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctatatt 180
 tcttcattca ttaccccaac aataataggn ctccctatcg taattattat cactatgttt 240
 ccaagcatta tattcccatc acctaccga ctaatcaata atcgactcat ctccattnca 300
 acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

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 ggcgccngc cgcgngngc catggnggac agnagagccg ggagtccgag annccggccc 180
 gcagcccag atgtcgccgc catggcttcg ccgcagctct gccgcgcgct ggtgtcggcg 240
 caatgggtgg cggaagcgct gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300
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aattcactgg ccgtcgtttt acaacgtcgt gactgggaan atnntaaan 170
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<211> 387

<212> DNA

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acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180
actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaaactggc ggactactta 300
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<220>
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gctgcaggaa attaacagag tctacnagga aatgtacaag actgatctgg agaaagacat 60
tatntcggac ncatctgggtg acttccgcaa gctgatgggt gccctggcna aagggttaaaa 120
aacagaagaa tgggtccgtcc ttgaatatga anngaatan ccacatgccc ggatttcctt 180
ganccc 186

<210> 344
<211> 611
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaaggga acaaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtgatc ccccgggctg caggaattcg gcacgagctg cgttgggctc 120
cggaagccg ttcgggctgg ggctgtcggc cgcgggcgagg aggcactcgc gcgggggatg 180
gccactgcg tgaccttggg tcagctgtcc atttcctgtg accatctcat tgacaaggac 240
atcggtcca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gctgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgtcccta 480
ggacagattg tgtccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tgagagtaga g                                     611

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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

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<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

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tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaaa aaagtactat aaaggattgg gtactagtag agctaaagaa gcaaaggaa 120
atcttgctga tatggaaagg catcgcatct tgtttagata tgctggtcct gaagatgatg 180

```

288

```

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggttaacaa 240
atatttatgga agaccggaga cagcgtagct acatggctta ccagaggant gattcnctct 300
caactcagac atgaaagatc tataccacnc ntgttgatgg cntt 344

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<210> 346

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 346

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ggaaaaagccc aaggaaaaag caaagaatag caaaaaaaag ggggccaaga aggaagtgg 60
tgggatttggc cttctttttt cttcagttag ttttttcccc aacaggttct gatggtcctt 120
tggctaccag caaaccagtc cctgcagaaa agtcagggtct tccagtgggt cctgagaacg 180
gagtagaact ttccaaagag gagctgatcc gcaggaagcg cgaggagttc attcagaagc 240
atgggagggg tatggagaag tccaacaagt ccacgaagtc agatgctcca aaggagaagg 300
gcaaaaaagc accccgggtg tgggaactgg gtggctgtgc taacaaagaa atgttggatt 360
acagtacttc caccaccaat ggaacccctg angcttgctt tgtctgagga cattaacctt 420
gattccaagg gactgggtct ggggggcact tnnngatctg gactgcacac tntgatgacn 480
aagggttgtg taaantttcc aaacta 506

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<210> 347

<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 347
cggaagggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120
tacttttaaat accattactg cagccacacg ccttggaggt gaagtgtcct gcttagtagc 180
tggaaccaaa tgtgacaagg tggcacaaga tctctgtaaa gtagcaggca tagcaaaagt 240
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300
tttggcaact cagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360
aaagaacctt ttgccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420
tgcaatcaag tcacctgaca catt 444

<210> 348
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
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<222> (348)
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<400> 348
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gacagacatg gaatcccaac cgcacaatgg gaaggctttc accaaacctg aaaggaagcc 120
tgcagcttca ttttgagtgc agacttccct gctttgggtg tgaaaggcca gtggtcttgc 180
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcctgcaag ctgtacaaga 240
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358

<210> 349
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 349
ggcgctttgc tctgtccacc aagattcctg acaccaaagg ctgcttgagc tgctgtgtgg 60
tgcggaaccc ctacacgggt gccaccttc tgctggccgc cctgcccacc agcctgctcc 120
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240
gttttttttg ggccgaaggc cctaaagggc ccggttgccg gttcctgttc caanncctgc 300
ncctgggagg ttggcnttaa g 321

<210> 350
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (658)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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cttcaatgca gaagtgtttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaaa acccaacagt gtgggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccggaaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttccgccc acctgtctgt ctcccttggg aggtggtccc actgggacac acaaacacccc 540
aaacagaaaa atacaaatac acgtacccca agaaggggtc cctcaagtct ctgctatttta 600
cagaagtttc ttcagtangc agaccaaaaa tgtgttgggc aaaagggctc ggntggangc 660
attttccata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac                                     742

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<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<400> 351
aatcaggcgg gactgacggc agatcgtatg ctggtcctgt ccagagccgg gcaggcggca 60
gggctgacgt ttaaccagac cagcgagtca ctcagcgcac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtgtggcgc gtttctnctc tgcacccggc 180
gtggagggtg acaaggtcgt tgaagccttc gagggggggc cgtacccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272

<210> 352
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (170)
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<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 352
gcagacgtcc agagcagagt cagccagcat gaccgagcgc cgcgtcccct tctcgctcct 60
gcggggcccc agctgggacc ccttcgcga ctggtagccg catagccgcc tcttcgacca 120

ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180
gccaggctac gtgcgcccc tgcccccg cgcctcgaga gccccgcagt ggccgngccc 240
gctacagncg nncgct 256

<210> 353
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (480)
<223> n equals a,t,g, or c

<220>
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<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 353
ggttcccttc cagctgtgg aagcattgta ctttnggtct tcatgataaa tctngctgct 60

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gctcactcgt tgggtccgtg ccacctttaa aanctgtaac actcaccgcg aaggctctgca 120
acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatcct taagaaccgt aatactcacc gcaagggctct gcaacttcat tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaag cagtgaagact attgccaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggcc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggncctct ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttggccc cc 592

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<210> 354

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<400> 354

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cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tccccggggc tgcaggaatt cggcacgagt cgtctcaggc tcgtagttcg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ctttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttccgccttg gcgcattaca acaagcgctc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagttggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaatth 539

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<210> 355

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>
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 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (396)
 <223> n equals a,t,g, or c

<220>
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 <222> (419)
 <223> n equals a,t,g, or c

<220>
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 <222> (421)
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<220>
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 <222> (422)
 <223> n equals a,t,g, or c

<220>
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 <222> (424)
 <223> n equals a,t,g, or c

<400> 355
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 atgaggacac actctctgtg gcactgccat atttctggga gcactttgat aaggacggct 120
 ggtccctgtg gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcagagct 180
 gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240
 gtgtcatcct ttttggaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300
 gccaggagct tgcctttccg ctgagtcagc attggcaagt ggactacgaa gtcatacaca 360
 tggcggaaac tggatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420
 nngngagggg gcctt 435

<210> 356
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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<220>

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<222> (243)
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<223> n equals a,t,g, or c

<220>
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<222> (275)
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<220>
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<220>
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<222> (292)
<223> n equals a,t,g, or c

<220>
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<222> (298)
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<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (324)
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<220>
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<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
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<222> (364)
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<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
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<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

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<222> (420)

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<222> (425)

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<222> (426)

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<221> misc feature

<222> (430)

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<221> misc feature

<222> (437)

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<222> (440)

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<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

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<222> (452)
<223> n equals a,t,g, or c

<220>
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<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
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<222> (461)
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<220>
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<222> (476)
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<220>
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<222> (478)
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<220>
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<222> (485)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (497)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (499)
 <223> n equals a,t,g, or c

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 gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttgtg ggaagcccgt 120
 gaaccccgtg gaacagaggc agcgcatcat cggagggcaa aaagccangg ggatagtggg 180
 ggcgtttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcgtgtnc 240
 ctngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300
 tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360
 tccnaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420
 acccnnacgn gtctctnttn anatinctnc tngcacnnna ncccacaacc ccccnccnc 480
 ccccnccccc ccccnccnc cc 502

<210> 357
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (45)
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<220>
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 <222> (236)
 <223> n equals a,t,g, or c

<220>
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 <222> (262)
 <223> n equals a,t,g, or c

<220>
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 <222> (293)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (300)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
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<222> (339)
<223> n equals a,t,g, or c

<220>
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<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

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<222> (378)
<223> n equals a,t,g, or c

<220>
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<222> (387)
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<220>
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<222> (389)
<223> n equals a,t,g, or c

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<222> (402)
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<220>
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<223> n equals a,t,g, or c

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<222> (418)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<400> 357
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ctgttcaggc cggagccaca gaccgccgtt gaatgggcgg atgctaatta ctatctcccg 120
aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtttg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataagc agnggaacan 300
ccttatttgg tttccncagg atggtggatg cccgagaant ttttggaanaa cccacgttgn 360
gncgattatt tcgggganatt ttccgngnt gttgggggtt gnccccntgg gttttggnaa 420
aaaganccgg gtaaaagggtt 440

<210> 358
<211> 234
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (46)
<223> n equals a,t,g, or c

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<222> (92)
<223> n equals a,t,g, or c

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<222> (162)
<223> n equals a,t,g, or c

<220>
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<222> (166)
<223> n equals a,t,g, or c

<220>
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<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 358

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ggaaagggtg tttatncctc atggactaat tatggacagg actgancgtt ttgctcgaaa 60
tgtgatgaag gagatgggag gccatcacat tntagtcctc tttttgctca agggggggcta 120
taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatttttngc agatctgaag agctattgtn atga      234
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<210> 359

<211> 668

<212> DNA

<213> Homo sapiens

<220>

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<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

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<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

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<222> (552)

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 <223> n equals a,t,g, or c

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 <222> (659)
 <223> n equals a,t,g, or c

<220>
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 <222> (667)
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<400> 359
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 aagctggtac gcctgcaggt accggtccgg aattcccggg tcgaccacg cgtccgggggt 120
 gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180
 tacagggaag atggaagtgg tggatgcattg acgactgacc acaatcaact gtgagggaagg 240
 agataaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagatt 300
 gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360
 actcaatcct gattcaagta tggaaacttc accagacttt ttcttctaaa atctggatgt 420
 cattgacgat aatgtttatg gagataaggt ctaagtgcct aaaaaaatgt acatatacct 480
 ggttgaaata caacactata catacacacc ancatatata ctagcttggt aatcctatgg 540
 aaatggggta tntggagnnc ttttttaatt tttcatagnt tttttttnat aanaatggca 600
 tattttggat ctacaacttc tatgatttga aaaaatacct taacccttat cttttttgng 660
 aaaaaana 668

<210> 360
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 360

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caccattacc agcggcggca atcctccggc cttttccctg acaccggacg gaaagctgac 60
cgctaaaaat gcggatatca gtggcagtgt gaatgcgaac tccgggacgc tcagtaatgt 120
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180
cattgtaaag gcggcgagcg cggcttttcc gcgccagggtg gaaagcagtg tggactggcc 240
gtcaggtagc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360
gtgttatctg aaagtactga tgaacgggtgc ggtgatttat g 401
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<210> 361

<211> 273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 361

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accggaacac ggcactgggc ggcgtgcagg tggactcgga gcagttcggc agccagcagg 60
tgagccgtaa ttatcatctg cgcgggcgta ttctgcaggt gccgtcgaac tataaccgcg 120
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180
tggcctggng tctgtgggat atgctgacct atccgcgcta cggcatgggg aaacgncttg 240
gtgcggcgga tgtggataaa tgggcgctgt atg 273
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<210> 362

<211> 248

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

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<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>
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<222> (41)
<223> n equals a,t,g, or c

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<222> (145)
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<220>
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<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
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<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<400> 362
cgctcngtcgg gcgagcgatg atgcggaagg ttacctngat nttttcaaag gnaagataac 60
cgaatcccat ctngcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120
cagactggag gagttttcga aagantggaa ggatgccagt nataagtgga atgccatgtg 180
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

<210> 363

<211> 149

<212> DNA

<213> Homo sapiens

<220>

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<222> (131)

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<220>

<221> misc feature

<222> (137)

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<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<400> 363

tgccggactt tcatcgtgag gatgactggt ggcgtaacgg ccagaatctc tatctggata 60
atctggaggc gacggggctg tatcaggtgc cgttggtcagc ggcacagccg ggcgatgtgc 120
tgctgtgctg ntttggtca tcannngcg 149

<210> 364

<211> 352

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (93)

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<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 364
gcanaaagaa aatggcacag taacagctgc caatgccagt aactgaatg atggagcagc 60
tgctctggtt ctcatgacgg cagatgcagc gangaggctc aatgttacac cactggcaag 120
aatagtagca ttgctgacg ctgctgtaga acctattgat tttccaattg ctctgtata 180
tgctgcatct atggtnctta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240
agtaaatgga agccttttagt ctggtgttac tagcaaacat taaaaatggt ggagattgga 300
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365
<211> 272
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

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<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
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<222> (116)
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<220>
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<222> (132)
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<220>
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<222> (145)
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<220>
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<222> (190)
<223> n equals a,t,g, or c

<220>
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<222> (226)
<223> n equals a,t,g, or c

<220>
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<222> (242)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (260)

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<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 365

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ggcttggtgcc gctgctggan tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggnacatg ggaccaaagc cggaacctcc tgctcaacgg 180
gaagtcttan cccaccaaag tgcgcctgat ctgggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272
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<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 366

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ggctctacta ggactcacta tanggaaagc tggtagcgcct gcaggtaccg gtccggaatt 60
cccggtcgga cccacgcgct cgcttctctg cctagaaggg ataatattat cactcttcgt 120
tataataaca atcaccatct taattaacca ccttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnnn actggggcct atccctttta gttatnatct 240
caantacata cgga                                     254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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gattggattc gacaacaaaa aagacctgct tatctcggtg ggcgatttgg ttgatcgtgg 60
tgcagagAAC gttgaatgcc tggaaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaaccatgag caaatgatga ttgatggcct atcagagcgt ggaaacgtta atcactggct 180
gctta                                             185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

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<220>

<221> misc feature

<222> (27)

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<220>
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<222> (170)
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<220>
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<222> (193)
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<220>
<221> misc feature
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<220>
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<220>
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<222> (316)
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<220>
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<222> (340)
<223> n equals a,t,g, or c

<220>
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<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>

314

<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
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<400> 368
agnncnatag aaagnacgcc tgcaggnacc ggtccggaat tcccgggtcg acccacgcgt 60
ccggagttag ccttgaacgc ctggacctgg acctcacagc tgacagccag ccacccgtct 120
tcaaggtctt cccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180
ctgccgctgc acnaccggcc agccagggac tgcgcctgca ggaacccctg gngccccacc 240
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccccctc 300
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360
tgctgagggg tcccggctgg actcactagt ggcanaacna ctcnnggctgg aagtngtagc 420
tctgagggac tcngccccag tgttggccgg gacctgat 458

<210> 369
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
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<222> (56)
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<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (103)
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<220>
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<222> (114)
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<222> (225)
<223> n equals a,t,g, or c

<220>
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<222> (239)
<223> n equals a,t,g, or c

<400> 369
gcgctggagc tgctngngca ctgcggcgtg tgcagagagc gcctgcnacc cgaganggag 60
ccccgcctgc ngccctgttt gcaactcgcc tgtagtgcc gcntagggcc cgngccccg 120
ccgccgcaaa cagctcgggg gacggcgggg cggcggggcga cggcaccgtg gtggactgtc 180
ccgtgtgcaa gcaacagtgc ttctccaaaag acatcgtgga gaatnatttc atgcgtgana 240
gtggcagcaa ggctgccacc gacgcccagg atgcgaacca gtgctgca 288

<210> 370
<211> 292
<212> DNA
<213> Homo sapiens

<220>
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<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>

316

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<222> (101)
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<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<400> 370
ccatcttttgc attgttcctc atccgcctcc ttgctcgccg cagccgncctc cgnccgcgcgn 60
ntcctccgcc gccgcggact ccggcagctt tategccaga ntccctgaac tctcgctttc 120
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagaggc 240
agaaaatgga agagacggcc ctnccttaacg gggaatgcta atttagggaa at 292

<210> 371
<211> 477
<212> DNA
<213> Homo sapiens

<220>
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<222> (35)
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<220>
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<222> (276)
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<220>
<221> misc feature
<222> (313)
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<220>
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<222> (342)
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<220>
<221> misc feature
<222> (374)
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<220>
<221> misc feature
<222> (399)
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<220>
<221> misc feature
<222> (410)
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<220>
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<222> (427)
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<220>
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<222> (434)
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<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 371
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tggttccaag cataaaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120
tggccagtca tggcaagggt taacaaaaga aaggggcaaag ctttaattggc ttagtggtcga 180
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300
ggaatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaagggt 360
tttccataat ttgngaggaa ttccccgagt ttgttagcnc ctaaagggn gttatgctcg 420
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<210> 372
<211> 443
<212> DNA
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<220>

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<223> n equals a,t,g, or c

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<220>
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<222> (116)
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<220>
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<222> (123)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
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ttncagtggt ttattatgaa cttccttggt gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgcaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgtgg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncagttg gtaggtgtgg aacttggggg tgaattnatt ncttaaccga 420
attttnccgn ttccttaacc gag 443
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<210> 373

<211> 464

<212> DNA

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<400> 373

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acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aattaacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga cttaaagatgt ataagcattc caataataag gccatgacta 360
cgggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
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 ctggcaattg ctggagaaga ttttgcaatt gttgcttctg atactcgatt gagtgaaggg 180
 ttttcaattc atacgcggga tagcccaaa tgttgncnna ntaacagaca aaacagtcac 240
 tggatgcagc ggttttcatg gagactgtct tacgctgaca aagattattg aagcaagact 300
 aaagatgtat aagcattcca ataataaggc cntgactacg gggggcaatg ctggcangcn 360
 gtnctacan 369

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<211> 313
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 tctgcgtctc tttttccgtg agagctatcc cttcaccacg gaggaaagtc tatctctcac 180
 aaattccggg actggtaaac atggcgctgt acgtttcgcc gattgtttcc ggtgaagggt 240
 atcccgttnc cctggcggnr tccacctntg aattttaaggc cgggataatg tcnaagcccc 300
 aagcatgnaa gtg 313

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 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 376
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 gtccaggggc cgacagcgcc caggcgggca gaggggcttc atgtcagggg tgccccaacc 120
 agcggctgtg cgcttctgga gcgggggcca ctccggacac ggctatagag gaaatcaaag 180

agaaaatgaa gactgtaaaa cacaaaatct tggattgtc tgggaaaggc ggtgttggga 240
aaagcacatt cagcgccac cttgcccatt gcctagcaga ggatgaaaac acacagattg 300
ctcttctaga catcgatata tgtgggccat cgattccaa gataatggga ttggaaggag 360
agcaggttca ccaga 375

<210> 377

<211> 434

<212> DNA

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gacngagana gtncagaagc tgtgcccagg ggggcagntc ccattcctgc tntatngnac 120
tgaagtgcac acagacacca acaagnttgc ngaatttctg nangcagtgc tgtgcccctcc 180
caggtacccc aanctggcag ctctgaaccc tnantccaac acagctgngc tgganatatt 240
tgncaaattn tctgcctaca tnnnnanttc aaaccacagna ctcaatgaca atctggagaa 300
nggactcctg aaagccctgn acgttttagn caattantta acatcccccc nctcagaaga 360
agtggatgan accagtgctg nagtgaagggt gtctctcaga agaagtttnt ggatagcacg 420
agctcaccct gggg 434

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 ttccttaatt ctntgctggc tgataatcat cacctgcagg ttggctccaa ttatttgtat 180
 attcataaaa tcgatggaaa aacttttctc tttaccaaaa caaatgacaa gagtctgggt 240
 cagaagataa atcgctctaa agcttcagtt gaagatatta agaacagcct cgtngatgac 300
 ggaatcattg ggattcccat cttttttgtt tgttgaaggc gacaccattg gtttttgcca 360
 gaactgnitt tcgggncggc cacatncgnt tttgacaggt ttttttaatc ggggaaggga 420
 ntgtccttaa ggctgtgggn gcngttcagt tggggccctg ttgggggggac cnccaaggng 480
 gtggttatgg cnnngntttc atnggc 506

329

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<212> DNA
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<220>
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ctagaactag tggatccccc gggctgcagg aattcggcac gaggccatcc agactgagga 120
agacccggaa acttaggggc cacgtgagcc acggccacgg ccgcataggc aagcaccgga 180
agcaccccgg cggccgcggt aatgctggtg gtctgcatca ccaccgatc aacttcgaca 240
aataccaccc aggctacttt gggaaagtgt gtatgaagca ttaccactta aagaggaacc 300
agagcttctg cccaactgtc aaccttgaca aattgtggac ttggtcagt gaacagacac 360
gggtgaatgc tgctaaaaac aagactgggg ctgctcccat cattgatgtg gtgcgatcgg 420
gctactataa agttctggga aagggaagc tcccaaagca gcctgtcatc gtgaaggcca 480
aattcttcag cagaagagct gaggagaaga ttaagagtgt tgggggggcc tgtgtcctgg 540
tggtttgaag 550

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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcg caaagaaggg 120
tggcgagaag aaaaagggcc gttctgccat caacgaaggn taacccgaga atacaccatc 180
aacattcaca agcgcaccca tggagtgggc ttcaagaagc gtgcacctcg ggcactcaaa 240
gagattcgga aatttgccat gaaggagatg ggaactccag atgtgcgcat tgacaccagg 300
ctcaacaaag ctgtctgggc caaaggaata aggaatgtgc cataccgaat ccgtgtgcgg 360
ctgtccagaa aacgtaatga ggatgaagat tcaccaaata agctatatac tttggttacc 420
tatgtacctg ttaccacttt caaaatttct gtgctaaaca gtgttacagt cgccaagagc 480
ccataaaggg agccctcctg gaagtggatg aggccttggg tctcggtctt tcattgcttc 540
ctgagctgca gcagatgcct ttacaaccaa gct 573

<210> 381

<211> 531

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

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tagaactagt ggatcccccg ggctgcagga attcggcacg aggcggcggtt ggcggcttgt 120
gcagcaatgg ccaagatcaa ggctcgagat cttcgcggga agaagaagga ggagctgctg 180
aaacagctgg acgacctgaa ggtggagctg tcccagctgc gcgtcgccaa agtgacaggc 240
ggtgcggcct ccaagctctc taagatccga gtcgtccgga aatccattgc ccgtgttctc 300
acagttatta accagactca gaaagaaaac ctcaggaaat tctacaaggg caagaagtac 360
aagcccctgg acctgcggcc taagaagaca cgtgccatgc gccgcccggct caacaagcac 420
gaggagaacc tgaagaccaa gaagcagcag cggaaggagc ggctgtaccc gctgcggaag 480
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<210> 382

<211> 300

<212> DNA

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accatccgca gagatgcccc tgctggccgc aaagtgggtc tcattgctgc nngcnggant 180
ggangtctcn ggggaaccaa gantgtgcag gagaaagaga actagtgtg agggcctcaa 240
taaagtttgt gtttatgcc aaaaaaaaaa naaaaaaaaa aaaaaaaaaa annaaagagn 300

<210> 383

<211> 475

<212> DNA

<213> Homo sapiens

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ccggggccga ggccgcggac tcgcgnaggc aaggccgagg ataaggagt gatgcccgtc 180
accaagttagt gccgcttggt caaggacatg aagatcaagt ccctggagga gatctatctc 240
ttctccctgc ccattaagga atcagagatc attgattctt cctgggggct ctctcaagga 300
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ttnttgnaac gggattaaat gccactcgtt tggtttaatg nccnagagt gcacncatcc 420
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<210> 384
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angagattaa ncagagacac aggcaattgt atgtcagcag ctngatttaa cccacctaaa 120
aggngcg 127

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<211> 317

<212> DNA

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<220>
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<400> 385
 ggcacgaggg atgtgcgacg tgtgcctggn gtagccccga ctcttgtagc gtcggcatct 60
 gagaccagtg agaaacgccc cttcattgtgt gcttaccag gctgcaataa gagatatttt 120
 aagctgtccc acttacagat gcacagcagg naagcacact ggtgagaaac cataccagtg 180
 tgactttnaag gactgtgaac gangttttct cgttcagacc agctcaaaag ncaccaaagg 240
 aggacataca ggtgtgaacc attnccagtg taaaattggt cagcgaaatt ctcccgggtcc 300
 gaccaacnga ngaccna 317

<210> 386
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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<222> (311)
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<220>
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<220>
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<220>
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 <222> (405)
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<220>
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 <222> (407)
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<220>
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 <222> (427)
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 tcccgggtcg acccacgctg ccgccgagag ccttagccga cggaaactgg acactggaac 120
 cggcagcgcc atgagactcc tccccgctt gctgctgctt ctcttactcg tgttccctgc 180
 cactgtcttg ttccgaggcg gccccagagg cttgttagca gtggcacaag atcttacaga 240
 ggatgaagaa acagtagaag attccataat tgaggatgaa gatgatgaag ccgangtaga 300
 agaagatgaa nccacagatt ttgtagaaga taaagaggaa gaagatgtgt ctggtgaanc 360
 tgaaacttta ccgagtgcag atacnactat actgttttta aaggngnaga ttttccgccca 420
 ataacantgt gaa 433

<210> 387
 <211> 407
 <212> DNA
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<220>
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<220>

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<222> (359)

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<222> (373)

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<222> (376)

<223> n equals a,t,g, or c

<220>

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<222> (407)

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<400> 387

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ggtgacgggt ctgtacgacg tgcaggcttt caagtttggg gacttcgtgc tgaagagcgg 120
gctttcctcc cccatctaca tcgatctgcg ggcatcgtg tctcgaccgc gtcttctgag 180
tcaggttgca gatattttat tccaaactgc ccaaaatgca ggcatcagtt ttgacaccgt 240
gtgtggagtg cttatacag ctttgccatt ggctacagtt atctgttcaa ccaatcaaatt 300
tccaatgctt attanaagga aagaaacaaa ggattatgga actaagcgtc ttgtanaang 360
aatattaatc canganaaac tgtttaatca ttgaaatggt gtccan 407

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<210> 388

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<400> 388

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ttcgttcatc tatcggatcg ccacactcac aacaatgagt ggcagatata gcctgggtgg 60
tcaggcggcg catTTTTatt gctgtgttgc gctgtaattc ttctatttct gatgctgaat 120
caatgatgtc tgccatcttt cattaatccc tgaactggtg gttaatacgc ttgaggggtga 180
atgcgaataa taaaaaagga gcctgtagct ccctnatgat nttgcttttc atgttcacg 240

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ttcc

244

<210> 389
<211> 239
<212> DNA
<213> Homo sapiens

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<222> (163)
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<222> (185)
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<222> (196)
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<220>
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<222> (202)
<223> n equals a,t,g, or c

<220>
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<222> (205)
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<400> 389
nggactggcg tcagacgtcg nattccggcg cccacggctg gcttaaacc tggtncatc 60
ctgncgcccg ncgtgatgcc agggaagaca gggcgacctg gaagtccaac tacttnctta 120
agatcatnca acgtattggg atgattatcc taaaatgggt tcnattggtg ggtagcgagt 180
acganatggg ggggcntcct anagntagta tggcgagcta gagtcccggc taatgttcc 239

<210> 390
<211> 382
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

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<222> (169)
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<222> (192)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

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<222> (342)
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<220>
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<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

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<220>
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<222> (374)
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<400> 390
tcaangcgca attaaccctc actaaaggga acaaaagctg ggaacgatct ggtntctctg 60
cgcgctgcnc gcacactgag gccgcccggg acaaagcccg gnntcggngc gacctttggt 120
cccggnc tca gtgagcgagc gagcgcgagc agagggagtg gccaaacttna tcactagggg 180
ttccttgtag tnaatgatta acccgccatg ctacttngnc nacgtagcca tgggntacca 240
agctcgagct ctctagactc gacgcgcgta atacgactca ctatagggcg aatttgagct 300
ccaccgcggt tgcggccgct ctactagagt cgacctcatg gnttnncccc gaaaccgcg 360
aacaccgcgct gacncgccct ta 382

<210> 391
<211> 375
<212> DNA
<213> Homo sapiens

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<222> (6)
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<220>
<221> misc feature
<222> (48)
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<220>
<221> misc feature
<222> (70)
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<220>
<221> misc feature

<222> (104)
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<220>
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<220>
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<222> (138)
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<220>
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<222> (146)
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<220>
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<222> (159)
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<220>
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<222> (208)
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<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
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<220>
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<222> (269)
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<220>
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<222> (275)
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<222> (279)

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<222> (299)

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<220>

<221> misc feature

<222> (351)

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<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 391

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tgcaannгаа tacacactaa ggacaagtgg actcacggtg cgccctcnga ctagtggtcc 60
cggtgtgcagn tgccaggggtg gcctgagcga tctacggatg ggcngtatgg agtggangag 120
acgagatgcg ggtgttanag cagggnctga ccggagtgnc acacatgagt gtcaggtgca 180
ggtagtccga gtcggcgaca tgagcctnga gtagagtcac cantcgatga gatctggagg 240
caactggcga gcaagaccgt ntgggtgcant gtcantcang ctgttgcagg tgagagcant 300
gcactcgtcg agtggcgaga cagatcaatc tctgttagcg ggtggagggt nactcgcgc 360
tgtggnggtn cactg 375
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<210> 392

<211> 121

<212> DNA

<213> Homo sapiens

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<222> (3)

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<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
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<220>
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<222> (120)
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<400> 392
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atcgtgnttc ctgtccattg gactgtaagg tttatgtagg catcttgga acnatggan 120
a 121

<210> 393
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 393
ggcagagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaanncccn ggngggggcc ccc 83

<210> 394
<211> 218
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
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<400> 394
gtcggcgag aangcgcccc gcacccccgc caggcgcatg tctgcacctc cgcttgccaa 60
aggncctcgg tcagcgactg gatgctcgcc atcaagggtcc agtggaggtt cttcaagagg 120
aaaggcgccc ccgccccagg cttccgcgcc cagcgctcgc cacgctcagt gcccgtttta 180
ccaataaact gagcgacccc aaaaaaaaaa aaaaaaaag 218

<210> 395
<211> 83
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<400> 395
aattcggcac ngnaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aan

83

<210> 396

<211> 70

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 396

aattcggcac agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaana 70

<210> 397

<211> 140

<212> DNA

<213> Homo sapiens

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<220>

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<220>

<221> misc feature

<222> (74)

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<220>

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<222> (93)

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<220>

<221> misc feature

<222> (113)

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<220>

<221> misc feature

<222> (114)

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347

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<222> (115)
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<220>
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<222> (139)
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<400> 397
aatttgacca gagaacaaga ataacccggc ctcagcgccg gggtttcttn gcctcangat 60
cgcccccaaa acanataacc aattgtatatt atngaaaaat aaatagatac aannnactaa 120
acatagcaat tcagatctnt 140

<210> 398
<211> 157
<212> DNA
<213> Homo sapiens

<220>
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<222> (10)
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<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
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<222> (121)
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<220>
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<222> (122)
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<220>
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<222> (123)
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<220>
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<222> (126)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
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<222> (150)
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<400> 398
aatcgcgcan agctcaagca gacgggggctc aaggggggtta catttaataa aaggatgaag 60
atggnaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
nnnccngggg gggnccccc cccccctttn cccccctt 157

<210> 399
<211> 358
<212> DNA
<213> Homo sapiens

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<222> (84)
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<222> (204)
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<220>
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<222> (305)
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<220>
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<222> (308)
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<220>
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<222> (331)
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<220>
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<222> (341)
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<400> 399
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gcaagcgcca tatgagcctg gcgncgcca tagcgaatcc tggtgtgggc tttttggcct 120
attcccgcgc ctgagtcctg ccgggatggc accgcccgc taggacttcc agggttgggc 180
tgagtgggag ttcgactgct gggncctngta attctcgctt tgggggctgc tccttccagg 240
ctggggacac actggggccc gttgttcggt ctcccgtcct ccgacatctt gtctggaact 300
tncgncctngc agtttccata ggagttggag nctgtgcggc ntaattttgg tggaaaaa 358

<210> 400
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<213> Homo sapiens

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<222> (171)
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<220>
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<220>
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<222> (218)
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<222> (262)
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<222> (269)
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<220>
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<220>
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<222> (283)
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<220>
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<222> (292)
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<220>
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<222> (316)
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<220>
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352

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<220>
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<222> (382)
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aaaacccaan tcagagtatc canaaatcca agccagggtca aaacccaaaac gaaantntca 120
agcaatccaa atcaagtcaa aaacaaaaaac caaagtgccg gtacaggcnt nccgtgggtg 180
atcaggccac ctttccactc aaatggagtg ggnaantncc aaagactagt nttaccaant 240
ttcanatntc cggantccaa gngcctgtnc ctcccagng ttnagccgct gnattgatcc 300
tctgtggggg cctgcnaaac gccantctgg cgagggtgtc cactggggna attgcctacc 360
cggnagtgtc ctcagggtct gngtccctca agctggcca 399

<210> 401
<211> 189
<212> DNA
<213> Homo sapiens

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<220>
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<222> (11)
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<222> (162)
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<220>
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<222> (165)
<223> n equals a,t,g, or c

<220>
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<222> (166)
<223> n equals a,t,g, or c

<220>
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<222> (187)
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<400> 401
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acaattgttg aaacctgcta tacatgttta ttttaataaa ttgatggcaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anccnngggg ggggcccccc 180
ccccccntt 189

<210> 402
<211> 174
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (103)
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<220>
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<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<400> 402
aattcggcan agctgaggca ggagaatcgc ttgaattcgg gaggcagagc tgagatcaca 60
cctctgacac tcnagcctgg gtgacagagc gagactccgt ctnaggnaag gaaaaaaaaa 120
aaaaaaaaan cncggggggg gcccngtnc ccaattggcc ctatagnngg tcgt 174

<210> 403
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<400> 403
ggcanagcca acccagcagt ccttccctca gctgcctagg aggaagggac ccagctgggt 60
ctgggaccac aagggaggag actgcacccc actgcctctg ggccctggct gtgggcagag 120
gccaccgtgt gtgtcccag taaccgtgcc gttgtcgtgt gatgccataa gcgtctgtgc 180
gtggagtccc caatgaaacc tgtggtcctg cctgggcaaa aaaaaaaaaa naaaanaaaa 240
anaaagaaaa anaanaaaan aaa 263

<210> 404
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 404
tcgacccacg cgtccggggg ctgcagcatg ttgctgagga gtgaggaata gttgagcccc 60
aagtcctgaa gaggcggggc agccaggctg acatctgtgt ttcaagtggg gctcgccatg 120
ccggggggttc ataggtcact ggctctccaa gtgccagang tgggcagggtg gtggcactga 180
gcccccccaa cactgtgccc tgggtggagaa agcactgacc tgtcatgccc cctccaaacc 240
tcctcttctg acgtgcctnt tgcacccctc ccattaggac aatcagtccc ctcccatctg 300
ggagtcccct tttcttttct accctagcca ttcctggtac ccagccatct gcccaagggt 360
gccccctcct ctcccatccc cctgccctcg tgggcagccc ggctggtttt gtaaagtgtg 420
gttgtgnaca gtgatttttt cttgtattta aaaaaggcca gcattgtggt tcattaaa 478

<210> 405
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<400> 405
agacagcagg acggtggcca tggaagtcgg aatccgctaa ggagtgtgta acaactcacc 60
tgccgaatca actagccctg aaaatggatg gcgctggagc gtcggggcca taccggtccg 120
tcgccggcag tcgagagtgg acggganccg cgggggcngc gcgcgcgcgc gncgtgatgg 180
tgtgcgtcgg agggcggcgg cggcggcggg ggtgtgnggt ccn 223

<210> 406
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<400> 406
cccacgcntc cgccgacagc agcagcctca ccatgangtt gctgatggtc ctcatgctgg 60
cggccctctc ccagcactgc nacgcaggct ctngctgccc ctna 104

<210> 407
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 407
gccctatagt gagtctngta ncaattcact ggccgtcggt ttacaacgtc gtgacgngga 60
aaactn 66

<210> 408
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 408

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gggcanagca agtcctgna cctcaagtga tccacatgcc ttggttgacc aaattgctgg 60
gattacaggc atgagccaat atgaccagct caaacatctt ctttttaaata gtcagaagca 120
tgtatagtga ttatttctta ttttttcccc ctgatccat ctcaccagat gtttggtgat 180
tttataagaa ttttcaaact accagcttct ggctttgttg aacttgggat ttctgtttca 240
ctaattttct tntcctgtc ttgtacttac ttgntgg 278
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<210> 409

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<400> 409
aataaaactc taaaangatc actataaaaa aagcaggnac gcctgcaggt accgggtccgg 60
aattccccggg tcgaccacg cgtccgacgg ctgcgagaag acgacagaag ggcacggctg 120
cgagaanacg acagaagggn gcnantgaaa gaaggcggca gaaaggnt 168

<210> 410
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 410
tgaataccta agatttctgt cttgggggttt ttggtgcatg cagttgatta cttcttattt 60
ttcttaccaa ttgtgaatgt tgggtgtgaaa caattaatga agcttttgaa tcatccctat 120
tctgtgtttt atctagtcac ataaatggat taattactaa tttcagttga gaccttctaa 180
ttgggttttta ctgaaacatt gaggggaacac aaatttatgg gcttcctgat gatgattctt 240
ctaggcatca tgtcctatag tttgtcatcc ctgatgaatg taaaattaca ctgttcacaa 300
agggttngtc tcctttccac tgctattaat catggtcact ctcccnaaa tattatattt 360
tttctattaa aagaaaaaaa tggaaaaaaa ttacaaggca atggaaacta ttata 415

<210> 411
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<400> 411

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gcagatcaga cgtggcgacc cgctgaatth aagcatatta gtcagcggag gagaagaaac 60
taaccaggat tccctcagta acggcgcagtg aacagggaag agcccagcgc cgaatccccg 120
ccccgcggcg gggcgcgagg catgtggcgt acggaagacc cgctccccgg cgccgctcgt 180
gggggggcca agtccttctg atcgaggccc agcccggtga cgggtgtgagg ccggtagcgg 240
cccccggcgc gccgggcccc ggtcttcccc gagtcggggt gcttggggat gcagcccaaa 300
gcgggttgta aactccatct aaggctaaat ccccttgtaa atttaactgt tagtccaaag 360
aggaacagct ctttgacac tangaaaaaa ccttgtagag agagtaaaaa atttaacacc 420
catagtaggc ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc 480
taaaaaatcc caaacatata actgaactcc tnacaccna ttggaccaat ctatcaccct 540
atanaanaac taatggtagt ataagtaaca tgaaaacatt ctnccttcgca taagcctgng 600
tanattaaaa cacttgaact gaccattaac aggcca 636
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<210> 412

<211> 182

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 412
ccattgattt ttatcaatag tcgtattcat acggatagtc ctggtattgt tccatcacat 60
tctgaggatg ctcttcgaac tcttcaaatt cttcttccat atatcacott aaatagtgga 120
ttgcggtant aaagattgtg cctgtctttt aaccacatca ggctcngann gntctcgtga 180
ac 182

<210> 413
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (349)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (364)
 <223> n equals a,t,g, or c

<400> 413
 tcgacccacg cgtccgcccc cgcgctccgcc aagaccaccc tccttttcatt tgctagaagg 60
 actcactaga ctcaggaaaag ctgttaggct cacagttaca gtttattaca gtaaaaggac 120
 agagattaag atcagcaaag ggaggagggtg cacagcnacg ttccacgaca gatgaggcga 180
 cggctttccat ctgccctctc ccagtggagc catataggca gcacctgatt ctcacagcaa 240
 catgtgacaa canccaagaa gtactgccaa tactgccaac cagagcagct tctactcggag 300
 atctttgtgt tccaganttt ttngtttgtc ttggagacag ggtctgggnc ngtttgggca 360
 gacnaagagt acatggtgga gattcac 387

<210> 414
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (60)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (186)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (195)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 414

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gcaaagggtcc atactgggta cttgggtttca ttgccaccac ttagtggtatg ttcagtttan 60
aaccatttttg tctgctccct ctggaagcct tgcgcatagc ttactttgta attggttgag 120
aataactgct gaatttttag ctgttttgag ttgattcgca ccaactgcacc acaactcact 180
atgaanacta tttancttat ttattatctt gtgaaaagta taccatgaaa attttgntca 240
tactgtattt atcaagtatn attaanagca ctagat 276
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<210> 415

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<400> 415

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aaaagattgg actaagacac tggccatacc actggacagg gttatgtaa cacctgaaat 60
tgctgggtct tgagagancc caacgcantt ctgggagang gaccacattg gggggtaggt 120
ccacgggctt ggtgatagaa ttatntcten atcgacttct tgantgcnat atgaactgta 180
acatttgctt ag                                     192
```

<210> 416

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<400> 416

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gcgagantnc gacagaaggg tacggctgcg agagacgaca gaagggtacg gctgcgagaa 60
gacnacagaa ggggtacggct gcgagaagac gacagaaggg tacggctgcg agaagacgac 120
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagaagga 180
tacggctgcg agaagacgac agaagggaga atcttagttc aactttaaat ttgcccacag 240
aaccctctaa atccccctgt aaattttaact gttagtccaa agaggaacag ctctttggac 300
actaggaaaa aaccttgtag agagagtaaa aaattttaaca cccatagtag gcctaaaagc 360
agccaccaat taagaaagcg ttcaaagctc aacacccact acccanaaaaa taaaaanaaa 420
naaaaacccg nggnccgct                                     439
```

<210> 417

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<400> 417

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gacatcttnt tggtttttat tttgaaacaa ttttaggct tgttccgggg gtctctgtgc 60
tgcctgtact gtattgacct gttntatagg tgccttttta ttaaaaagaa aattcaaaaa 120
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annaaaaaaaa aaattaataa aaaaaaaaaa aanca

155

<210> 418

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 418

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gaaaaaagaa atccatatct taaagaaaca gctttcaagt gcctttctgc agtttttcag 60
gagcgcaaga tagatttgga ataggaataa gctctagttc ttaacaaccg acactcctac 120
aagatttaga aaaaagttta caacataatc tagtttacag aaaaatcttg tgctagaata 180
ctttttaaaa ggtattttga ataccattaa aactgctttt ttttttccag caagtatcca 240
accaacttgg ttctgcttca ataaatcttt ggaaaaacta atttinnanna n 291

```

<210> 419

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

Val	Xaa	Asp	Trp	Phe	Leu	Trp	Tyr	Val	Lys	Lys	Cys	Gly	Gly	Thr	Thr
1				5				10						15	

Arg Ile Ile Ser Thr Thr Asn Gly Gly Gln Glu Arg Lys Phe Val Gly
20 25 30

Gly Ser Gly Gln Val Ser Glu Arg Ile Met Asp Leu Leu Gly Asp Arg
35 40 45

Val Lys Leu Glu Arg Pro Val Ile Tyr Ile Asp Gln Thr Arg Glu Asn
50 55 60

Val Leu Val Glu Thr Leu Asn His Glu Met Tyr Glu Ala Lys Tyr Val
65 70 75 80

Ile Ser Ala Ile Pro Pro Thr Leu Gly Met Lys Ile His Phe Asn Pro
85 90 95

Pro	Leu	Pro	Met	Met	Arg	Asn	Gln	Met	Ile	Thr	Arg	Val	Pro	Leu	Gly
			100					105					110		

Ser Val Ile Lys Cys Ile Val Tyr Tyr Lys Glu Pro Phe Trp Arg Lys
115 120 125

Lys Asp Tyr Cys Gly Thr Met Ile Ile Asp Gly Glu Glu Ala Pro Val
130 135 140

Ala Tyr Thr Leu Asp Asp Thr Lys Pro Glu Gly Asn Tyr Ala Ala Ile
145 150 155 160

Met Gly Phe Ile Leu Ala His Lys Ala Arg Lys Leu Ala Arg Leu Thr
165 170 175

Lys Glu Glu Arg Leu Lys Lys Leu Cys Glu Leu Tyr Ala Lys Val Leu
180 185 190

Gly Ser Leu Glu Ala Leu Glu Pro Val His Tyr Glu Glu Lys Asn Trp
195 200 205

Cys Glu Glu Gln Tyr Ser Gly Gly Cys Tyr Thr Thr Tyr Phe Pro Pro
210 215 220

Gly Ile Leu Thr Gln Tyr Gly Arg Val Leu Arg Gln Pro Val Asp Arg
225 230 235 240

Ile Tyr Phe Ala Gly Thr Glu Thr Ala Thr His Trp Ser Gly Tyr Met
245 250 255

368

Glu Gly Ala Val Glu Ala Gly Glu Arg Ala Ala Arg Glu Ile Leu His
 260 265 270
 Ala Met Gly Lys Ile Pro Glu Asp Glu Ile Trp Gln Ser Glu Pro Glu
 275 280 285
 Ser Val Asp Val Pro Ala Gln Pro Ile Thr Thr Thr Phe Leu Glu Arg
 290 295 300
 His Leu Pro Ser Val Pro Gly Leu Leu Arg Xaa Ile Gly Leu Thr Thr
 305 310 315 320
 Ile Phe Ser Ala Thr Ala Leu Gly Phe Leu Ala His Lys Arg Gly Leu
 325 330 335
 Leu Val Arg Val
 340

<210> 420

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 420

Thr Arg Asp Leu Val Ser Phe Ile Ser Gly Ile Arg Leu Tyr Asn Leu
 1 5 10 15
 Met Leu Ser Val Leu Arg His Lys Arg Gln Asn Val Ala Tyr Phe Arg
 20 25 30
 Ile Cys Phe Phe Ile Glu Val Ser Gly Ile Leu Ser Lys Ile Val Xaa
 35 40 45
 Ser Arg His Cys Ser Leu Cys Ser Ser Gly Thr Ser Cys Pro Leu Leu
 50 55 60
 Ser Leu Gln Ala Thr Gly Asn Ala Ser Val Leu Val Ser Trp Arg Lys
 65 70 75 80
 Ile Thr Trp Gly Glu Gly Thr Ser Cys Gly Lys Ser Lys Cys Arg Tyr
 85 90 95
 Glu Met Arg Arg Leu Pro Gln Leu Lys Val Asp Lys Ser Ala Leu

369

100

105

110

<210> 421

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 421

Xaa	Ile	Trp	Cys	Ile	Ile	Cys	Lys	Glu	Ser	Lys	Met	Met	Ser	Phe	Pro
1				5					10					15	

Arg	Gly	Met	Asn	Leu	Arg	Asn	Ala	Phe	Asp	Gly	Asp	Val	Ser	Val	Thr
			20					25					30		

Leu	Cys	Tyr	Ser	Gly	Ser	Ser	Asn	Asn	Ser	Lys	Ala	Asn	Tyr	Ser	Lys
		35					40					45			

Cys	Lys	Ile	Phe	Leu	Phe	Pro	Arg	Phe	Thr	Phe	Val	Trp
	50					55					60	

<210> 422

<211> 51

<212> PRT

<213> Homo sapiens

<400> 422

Thr	His	Ala	Tyr	Cys	Ser	Asn	Leu	Ser	Phe	Arg	Leu	Tyr	Asp	Gln	Trp
1				5					10					15	

Arg	Ala	Trp	Met	Gln	Lys	Ser	His	Lys	Thr	Arg	Asn	Gln	His	Arg	Thr
			20					25					30		

Arg	Gly	Ser	Cys	Pro	Arg	Ala	Asp	Gly	Ala	Arg	Arg	Glu	Val	Leu	Pro
		35					40					45			

Asp	Lys	Leu
	50	

<210> 423

<211> 246

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 423

Thr	Arg	Asn	Asp	Met	Lys	Ala	Asp	Cys	Ile	Leu	Tyr	Tyr	Gly	Phe	Gly
1				5					10					15	
Asp	Ile	Phe	Arg	Ile	Ser	Ser	Met	Val	Val	Met	Glu	Asn	Val	Gly	Gln
			20					25					30		
Gln	Lys	Leu	Tyr	Glu	Met	Val	Ser	Tyr	Cys	Gln	Asn	Ile	Ser	Lys	Cys
		35					40					45			
Arg	Arg	Val	Leu	Met	Ala	Gln	His	Phe	Asp	Glu	Val	Trp	Asn	Ser	Glu
		50				55					60				
Ala	Cys	Asn	Lys	Met	Cys	Xaa	Asn	Cys	Cys	Lys	Asp	Ser	Ala	Phe	Glu
65					70					75				80	
Arg	Lys	Asn	Ile	Thr	Glu	Tyr	Cys	Arg	Asp	Leu	Ile	Lys	Ile	Leu	Lys
				85					90					95	
Gln	Ala	Glu	Gly	Xaa	Gly	Met	Glu	Lys	Leu	Thr	Pro	Ile	Gly	Asn	Trp
			100					105					110		
Ile	Asp	Ser	Trp	Xaa	Gly	Lys	Gly	Ala	Ala	Lys	Leu	Arg	Val	Ala	Gly
		115					120					125			
Val	Val	Ala	Pro	Thr	Leu	Pro	Arg	Glu	Asp	Leu	Glu	Lys	Ile	Ile	Ala
		130				135					140				

371

His Phe Xaa Ile Gln Gln Tyr Leu Lys Glu Asp Tyr Ser Phe Thr Ala
 145 150 155 160
 Tyr Ala Thr Ile Ser Tyr Leu Lys Ile Gly Pro Lys Ala Asn Leu Leu
 165 170 175
 Asn Asn Glu Ala His Ala Ile Thr Met Gln Val Thr Lys Ser Thr Gln
 180 185 190
 Asn Ser Phe Arg Ala Glu Ser Ser Gln Thr Cys His Ser Glu Gln Gly
 195 200 205
 Asp Lys Lys Met Glu Glu Lys Asn Ser Gly Asn Phe Gln Lys Lys Ala
 210 215 220
 Ala Asn Met Leu Gln Gln Ser Gly Ser Lys Asn Thr Gly Ala Lys Lys
 225 230 235 240
 Arg Lys Ile Asp Asp Ala
 245

<210> 424

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424

Asp His Trp Pro Arg Pro Glu Trp Leu Pro Cys Thr Ser Trp Arg Arg
 1 5 10 15
 Ala Ser Cys Leu Asn His Val Asn Cys His His Leu Ala Thr Pro Ala
 20 25 30
 Pro Ala Ser Ala Leu Pro Pro Phe Pro Pro Ser Trp Ser Gly Gly Tyr
 35 40 45
 Arg Ser Leu Gly Pro Thr Leu Ala Pro Leu Ser Pro Ala Ser Val Cys
 50 55 60
 Leu Thr Val Phe Pro Pro Leu Pro Gln Leu Arg Cys Xaa Pro Gln Ala
 65 70 75 80
 Trp Cys Cys Leu Gly Gly Leu Gly Glu Gly Val Cys Gly Gly Gly Arg
 85 90 95

372

Arg Val Lys Thr Glu Ala Arg Cys Gln Asn Gly Leu Glu
 100 105

<210> 425
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 425
 Gly Ser Glu Thr Xaa Lys Tyr Leu Val Glu Asp Lys Arg Leu Gly Leu
 1 5 10 15
 Tyr Thr Trp Leu Cys Thr Asp Leu Leu Ser His Ile Gly Asn His His
 20 25 30
 Thr Leu Gln Gly Ile Ser Phe Ile Cys Lys Met Gln Arg Leu Val Leu
 35 40 45
 Xaa Asn His Thr Asn Phe Phe Val Leu
 50 55

<210> 426
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 426
 Phe Gly Thr Ser Gly Asp Gly Gly Gly Ser Lys Met Ala Gln Ala Ile
 1 5 10 15
 Phe Glu Ala Leu Glu Gly Met Asp Asn Gln Thr Val Leu Ala Val Gln

373

20 25 30
 Ser Leu Leu Asp Gly Gln Gly Ala Val Pro Asp Pro Thr Gly Gln Ser
 35 40 45
 Val Asn Ala Pro Pro Ala Ile Gln Pro Leu Asp Asp Glu Asp Val Phe
 50 55 60
 Leu Cys Gly Lys Cys Lys Lys Gln Phe Asn Ser Leu Pro Ala Phe Met
 65 70 75 80
 Thr His Lys Arg Glu Gln Cys Gln Gly Asn Ala Pro Ala Leu Ala Xaa
 85 90 95
 Val Ser Leu

<210> 427
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 427
 Asn Ser Asn Ser Ser Ile Phe Ser Leu Val Ser Val Lys Cys Asp Lys
 1 5 10 15
 Ser Thr Tyr Phe Lys Leu Phe Ser Ala Leu Gly Tyr Ser Ser Asn Lys
 20 25 30
 Asn Thr Asn Leu Trp Val Phe Lys Lys Thr Trp Arg Ile Asn Ser Tyr
 35 40 45
 Phe Lys Arg Ser Lys Lys Lys
 50 55

<210> 428
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 428
 His Thr Leu Ser Asn Leu Glu Phe Ala Gln Lys Val Glu Pro Cys Asn

374

1 5 10 15
Asp His Val Arg Ala Lys Leu Ser Trp Ala Lys Lys Arg Asp Glu Asp
20 25 30
Asp Val Pro Thr Val Pro Ser Thr Xaa Gly Glu Glu Arg Leu Tyr Asn
35 40 45
Pro Phe Leu Arg Val Ala
50

<210> 429
<211> 39
<212> PRT
<213> Homo sapiens

<400> 429
Arg Gln Thr Lys Val Asn Leu Lys Glu Thr Arg Ser Phe Glu Ile Ile
1 5 10 15
Val Trp Gly Phe Tyr Lys Ser Asn Tyr Cys His Leu His Pro Asp Ser
20 25 30
Phe Lys Leu Leu Ile His Pro
35

<210> 430
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 430
Ala Arg Ala Pro Arg Val Pro Pro Ala Pro His Thr Pro Ser Lys Met
1 5 10 15
Gly Lys Glu Lys Thr His Ile Asn Ile Val Val Ile Gly His Val Asp
20 25 30

375

Ser Gly Lys Ser Thr Thr Thr Gly His Leu Ile Tyr Lys Cys Gly Gly
 35 40 45
 Ile Asp Lys Arg Thr Ile Glu Lys Phe Glu Lys Glu Ala Ala Glu Met
 50 55 60
 Gly Lys Gly Ser Phe Lys Tyr Ala Trp Val Leu Asp Lys Leu Lys Ala
 65 70 75 80
 Xaa Val Ser Ala Xaa Ile Thr Ile Asp Ile Ser Leu Trp Lys Phe Glu
 85 90 95
 Thr Thr Lys Tyr Tyr Ile Thr Ile Ile Asp Ala Pro Gly His Arg Asp
 100 105 110
 Phe Ile Lys Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Cys Ala Val
 115 120 125
 Leu Ile Val Ala Ala
 130

<210> 431

<211> 190

<212> PRT

<213> Homo sapiens

<400> 431

Leu Cys Trp Ala Arg Pro Leu Pro Ser Gly Pro Val Leu Leu Ala Ala
 1 5 10 15
 Asn Lys Asp Ser Ser Trp Cys Pro Thr Cys Leu Val His Cys Cys Val
 20 25 30
 Asn Pro Gly Gly Ser Gly His Arg Arg Gln Pro Arg Pro Arg Val Gln
 35 40 45
 Glu Lys Cys Ser Leu Glu Ala Arg Thr Thr Ala Ser His Trp Gly Arg
 50 55 60
 Arg Gly Pro Arg Thr Thr Ser Ala Ser Tyr Leu Pro Ala Ser Ala Arg
 65 70 75 80
 Gly Pro Arg Asp Ala Val Leu Phe Gln Pro Pro Ala Leu Gly Arg Gly
 85 90 95
 His Ala Ser Arg Ile Gln Gly Ala Gly Gly Leu Ser Thr Ala Arg Thr
 100 105 110

376

Cys Leu Leu Ala Ala Ala Ala Val Gly Glu His Gly Gly Cys Gln Arg
 115 120 125
 Leu Leu Trp Lys Val Ala Ala Ser Glu Met Ala Gly Ala Ala Gly Val
 130 135 140
 Arg Leu His Thr Ala Gln Val Ser Ser Gly Arg Leu Ser Trp Gly Gly
 145 150 155 160
 Ser Ser Ser Ala Glu Gly Trp Trp Gly Val Gln Ser Val Ile Leu Gly
 165 170 175
 Ala Val Cys Pro Thr Pro Ala Trp Gly Pro His Phe Arg Arg
 180 185 190

<210> 432

<211> 310

<212> PRT

<213> Homo sapiens

<400> 432

Gly Pro His Gly Asn Gly Glu Val Arg Trp Pro Leu Pro Pro Pro Pro
 1 5 10 15
 Pro Arg Phe Val Ala Arg Arg Lys Met Ala Asp Leu Glu Glu Gln Leu
 20 25 30
 Ser Asp Glu Glu Lys Val Arg Ile Ala Ala Lys Phe Ile Ile His Ala
 35 40 45
 Pro Pro Gly Glu Phe Asn Glu Val Phe Asn Asp Val Arg Leu Leu Leu
 50 55 60
 Asn Asn Asp Asn Leu Leu Arg Glu Gly Ala Ala His Ala Phe Ala Gln
 65 70 75 80
 Tyr Asn Leu Asp Gln Phe Thr Pro Val Lys Ile Glu Gly Tyr Glu Asp
 85 90 95
 Gln Val Leu Ile Thr Glu His Gly Asp Leu Gly Asn Gly Lys Phe Leu
 100 105 110
 Asp Pro Lys Asn Arg Ile Cys Phe Lys Phe Asp His Leu Arg Lys Glu
 115 120 125
 Ala Thr Asp Pro Arg Pro Cys Glu Val Glu Asn Ala Val Glu Ser Trp
 130 135 140
 Arg Thr Ser Val Glu Thr Ala Leu Arg Ala Tyr Val Lys Glu His Tyr

377

145	150							155							160		
Pro	Asn	Gly	Val	Cys	Thr	Val	Tyr	Gly	Lys	Lys	Ile	Asp	Gly	Gln	Gln		
				165					170					175			
Thr	Ile	Ile	Ala	Cys	Ile	Glu	Ser	His	Gln	Phe	Gln	Ala	Lys	Asn	Phe		
				180					185					190			
Trp	Asn	Gly	Arg	Trp	Arg	Ser	Glu	Trp	Lys	Phe	Thr	Ile	Thr	Pro	Ser		
				195					200					205			
Thr	Thr	Gln	Val	Val	Gly	Ile	Leu	Lys	Ile	Gln	Val	His	Tyr	Tyr	Glu		
				210					215					220			
Asp	Gly	Asn	Val	Gln	Leu	Val	Ser	His	Lys	Asp	Ile	Gln	Asp	Ser	Leu		
225					230					235					240		
Thr	Val	Ser	Asn	Glu	Val	Gln	Thr	Ala	Lys	Glu	Phe	Ile	Lys	Ile	Val		
				245					250					255			
Glu	Ala	Ala	Glu	Asn	Glu	Tyr	Gln	Thr	Ala	Ile	Ser	Glu	Asn	Tyr	Gln		
				260					265					270			
Thr	Met	Ser	Asp	Thr	Thr	Phe	Lys	Ala	Leu	Arg	Arg	Gln	Leu	Pro	Val		
				275					280					285			
Thr	Arg	Thr	Lys	Ile	Asp	Trp	Asn	Lys	Ile	Leu	Ser	Tyr	Lys	Ile	Gly		
				290					295					300			
Lys	Glu	Met	Gln	Asn	Ala												
305					310												

$\langle 210 \rangle$ 433

<211> 289

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433

Gln Ser Cys Thr Ser Gly Ser Ser Lys Pro Asn Ser Pro Ser Ile Ser

378

1	5	10	15
Pro Ser Ile Leu Ser Asn Thr Glu His Lys Arg Gly Pro Glu Val Thr	20	25	30
Ser Gln Gly Val Gln Thr Ser Ser Pro Ala Cys Lys Gln Glu Lys Asp	35	40	45
Asp Lys Glu Glu Lys Lys Asp Ala Ala Glu Gln Val Arg Lys Ser Thr	50	55	60
Leu Asn Pro Asn Ala Lys Glu Phe Asn Pro Arg Ser Phe Ser Gln Pro	65	70	75
Lys Pro Ser Thr Thr Pro Thr Ser Pro Arg Pro Gln Ala Gln Pro Ser	85	90	95
Pro Ser Met Val Gly His Gln Gln Pro Thr Pro Val Tyr Thr Gln Pro	100	105	110
Val Cys Phe Ala Pro Asn Met Met Tyr Pro Val Pro Val Ser Pro Gly	115	120	125
Val Gln Pro Leu Tyr Pro Ile Pro Met Thr Pro Met Pro Val Asn Gln	130	135	140
Ala Lys Thr Tyr Arg Ala Gly Lys Val Pro Asn Met Pro Gln Gln Arg	145	150	155
Gln Asp Gln His His Gln Ser Ala Met Met His Pro Ala Ser Ala Ala	165	170	175
Gly Pro Pro Ile Ala Ala Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val	180	185	190
Ala Tyr Ser Pro Gln Gln Phe Pro Asn Gln Pro Leu Val Gln His Val	195	200	205
Pro His Tyr Gln Ser Gln His Pro His Val Tyr Ser Pro Val Ile Gln	210	215	220
Gly Asn Ala Arg Met Met Ala Pro Pro Thr His Ala Gln Pro Gly Leu	225	230	235
Val Ser Ser Ser Ala Thr Gln Tyr Gly Ala His Glu Gln Thr His Ala	245	250	255
Met Tyr Ala Cys Pro Lys Leu Pro Tyr Asn Lys Glu Thr Ser Pro Ser	260	265	270
Phe Tyr Phe Ala Ile Ser Thr Gly Ser Leu Ala Gln Gln Tyr Xaa Xaa			

379

275

280

285

Pro

<210> 434

<211> 147

<212> PRT

<213> Homo sapiens

<400> 434

Lys	Val	Thr	Pro	Asp	Leu	Lys	Pro	Thr	Glu	Ala	Ser	Ser	Ser	Ala	Phe
1				5					10					15	

Arg	Leu	Met	Pro	Ala	Leu	Gly	Val	Ser	Val	Ala	Asp	Gln	Lys	Gly	Lys
			20					25					30		

Ser	Thr	Val	Ala	Ser	Ser	Glu	Ala	Lys	Pro	Ala	Ala	Thr	Ile	Arg	Ile
		35					40					45			

Val	Gln	Gly	Leu	Gly	Val	Met	Pro	Pro	Lys	Ala	Gly	Gln	Thr	Ile	Thr
	50					55					60				

Val	Ala	Thr	His	Ala	Lys	Gln	Gly	Ala	Ser	Val	Ala	Ser	Gly	Ser	Gly
65					70					75					80

Thr	Val	His	Thr	Ser	Ala	Val	Ser	Leu	Pro	Ser	Met	Asn	Ala	Ala	Val
				85					90					95	

Ser	Lys	Thr	Val	Ala	Val	Ala	Ser	Gly	Ala	Ala	Arg	Pro	Pro	Ser	Ala
			100					105					110		

Ser	Ala	Gln	Glu	Pro	Pro	Pro	Cys	Gly	Arg	Ser	Leu	Ser	Ala	Pro	Arg
		115					120					125			

Leu	Cys	Pro	Arg	Pro	Arg	Leu	Gly	Ser	Cys	Leu	His	Gly	Ser	Gln	Phe
	130					135					140				

Pro Ser Leu

145

<210> 435

<211> 151

<212> PRT

<213> Homo sapiens

<220>

380

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435

Gly	Ser	Gly	Thr	Lys	Asp	Pro	Ser	Xaa	Cys	Asn	Thr	Gln	Thr	Xaa	Ala
1				5				10						15	

His	Thr	His	Thr	Gly	Gly	Glu	Ile	Ser	Leu	Phe	Ser	Met	Ser	Phe	Phe
			20					25					30		

Ser	Trp	Ala	Glu	Thr	Gly	Tyr	Cys	Pro	Gly	Gln	Leu	Pro	Glu	Lys	His
		35					40					45			

Arg	Arg	Glu	Leu	Arg	Ser	Ala	Arg	Pro	Ser	Ser	Leu	Ala	Pro	Gly	Phe
		50				55					60				

Gly	Gly	Pro	Arg	Thr	Ala	Asp	Arg	Gly	Trp	Ser	Trp	Arg	Leu	Xaa	Ser
65					70					75					80

Arg	Ala	Tyr	Thr	Trp	Arg	Asn	Ala	Pro	Pro	Ser	Ser	Pro	Ser	Leu	Gln
				85					90					95	

Thr	Trp	Gly	Trp	Leu	Gly	Pro	Glu	Gly	Cys	Asp	Glu	Glu	Lys	Arg	Ala
		100						105					110		

Ser	Val	Gly	Met	Arg	Gln	Glu	Gly	Ile	Asp	Phe	Asp	Cys	Asp	Leu	Trp
		115					120					125			

Gly	Phe	Leu	Pro	Ala	Leu	Asp	Asn	Pro	Ala	Lys	Asp	Cys	Phe	Phe	Leu
	130					135					140				

Ser	Leu	Ala	Arg	Arg	Gly	Pro
145					150	

<210> 436

<211> 180

<212> PRT

<213> Homo sapiens

381

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 436

Ala	Pro	Ala	Ser	Pro	Val	Met	Pro	Pro	Gln	Thr	Gln	Ser	Pro	Gly	Gln
1				5					10					15	

Pro	Ala	Gln	Pro	Ala	Pro	Met	Val	Pro	Leu	His	Gln	Lys	Gln	Ser	Arg
		20						25					30		

Ile	Thr	Pro	Ile	Gln	Lys	Pro	Arg	Gly	Xaa	Asp	Pro	Val	Glu	Ile	Leu
		35					40					45			

Gln	Glu	Arg	Glu	Tyr	Arg	Leu	Gln	Ala	Arg	Ile	Ala	His	Arg	Ile	Gln
	50					55					60				

Glu	Leu	Glu	Asn	Leu	Pro	Gly	Ser	Leu	Ala	Gly	Asp	Leu	Arg	Thr	Lys
65					70					75					80

Ala	Thr	Ile	Glu	Leu	Lys	Ala	Leu	Arg	Leu	Leu	Asn	Phe	Gln	Arg	Gln
				85					90					95	

Leu	Arg	Gln	Glu	Val	Val	Val	Cys	Met	Arg	Arg	Asp	Thr	Ala	Leu	Glu
		100						105						110	

Thr	Ala	Leu	Asn	Ala	Lys	Ala	Tyr	Lys	Arg	Xaa	Ser	Ala	Ser	Pro	Cys
		115					120					125			

Ala	Arg	Pro	Ala	Ser	Leu	Arg	Ser	Trp	Arg	Ser	Ser	Arg	Arg	Ser	Ser
	130					135					140				

Arg	Ser	Ala	Ser	Ala	Gly	Arg	Ser	Thr	Arg	Asn	Thr	Ser	Ile	Ala	Phe
145					150					155					160

Ser	Ser	Met	Pro	Arg	Ile	Ser	Arg	Asn	Ile	Thr	Asp	Pro	Ser	Gln	Ala
				165					170					175	

Lys	Ser	Arg	Ser
			180

<210> 437

382

<211> 415
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 437
 Arg Lys Tyr Leu Val Pro Leu Xaa Lys Lys Leu Tyr Leu Lys Trp Ala
 1 5 10 15
 Leu Glu Glu Tyr Leu Asp Glu Phe Asp Pro Cys His Cys Arg Pro Cys
 20 25 30
 Gln Asn Gly Gly Leu Ala Thr Val Glu Gly Thr His Cys Leu Cys His
 35 40 45
 Cys Lys Pro Tyr Thr Phe Gly Ala Ala Cys Glu Gln Gly Val Leu Val
 50 55 60
 Gly Asn Gln Ala Gly Gly Val Asp Gly Gly Trp Ser Cys Trp Ser Ser
 65 70 75 80
 Trp Ser Pro Cys Val Gln Gly Lys Lys Thr Arg Ser Arg Xaa Cys Xaa
 85 90 95
 Asn Pro Pro Pro Ser Gly Gly Gly Arg Ser Cys Val Gly Glu Thr Thr
 100 105 110
 Glu Ser Thr Gln Cys Glu Asp Glu Glu Leu Glu His Leu Arg Leu Leu
 115 120 125
 Glu Pro His Cys Phe Pro Leu Ser Leu Val Pro Thr Glu Phe Cys Pro
 130 135 140

383

Ser	Pro	Pro	Ala	Leu	Lys	Asp	Gly	Phe	Val	Gln	Asp	Glu	Gly	Thr	Met	145	150	155	160
Phe	Pro	Val	Gly	Lys	Asn	Val	Val	Tyr	Xaa	Cys	Asn	Glu	Gly	Tyr	Ser	165	170		175
Leu	Ile	Gly	Asn	Pro	Val	Ala	Arg	Cys	Gly	Glu	Asp	Leu	Arg	Trp	Leu	180	185		190
Val	Gly	Glu	Met	His	Cys	Gln	Lys	Ile	Ala	Cys	Val	Leu	Pro	Val	Leu	195	200		205
Met	Asp	Gly	Ile	Gln	Ser	His	Pro	Gln	Lys	Pro	Phe	Tyr	Thr	Val	Gly	210	215		220
Glu	Lys	Val	Thr	Val	Ser	Cys	Ser	Gly	Gly	Met	Ser	Leu	Glu	Gly	Pro	225	230	235	240
Ser	Ala	Phe	Leu	Cys	Gly	Ser	Ser	Leu	Lys	Trp	Ser	Pro	Glu	Met	Lys	245	250		255
Asn	Ala	Arg	Cys	Val	Gln	Lys	Glu	Asn	Pro	Leu	Thr	Gln	Ala	Val	Pro	260	265		270
Lys	Cys	Gln	Arg	Trp	Glu	Lys	Leu	Gln	Asn	Ser	Arg	Cys	Val	Cys	Lys	275	280		285
Met	Pro	Tyr	Glu	Cys	Gly	Pro	Ser	Leu	Asp	Val	Cys	Ala	Gln	Asp	Glu	290	295		300
Arg	Ser	Lys	Arg	Ile	Leu	Pro	Leu	Thr	Val	Cys	Lys	Met	His	Val	Leu	305	310	315	320
His	Cys	Gln	Gly	Arg	Asn	Tyr	Thr	Leu	Thr	Gly	Arg	Asp	Ser	Cys	Thr	325	330		335
Leu	Pro	Ala	Ser	Ala	Glu	Lys	Ala	Cys	Gly	Ala	Cys	Pro	Leu	Trp	Gly	340	345		350
Lys	Cys	Asp	Ala	Glu	Ser	Ser	Lys	Cys	Val	Cys	Arg	Glu	Ala	Ser	Glu	355	360		365
Cys	Glu	Glu	Glu	Gly	Phe	Ser	Ile	Cys	Val	Glu	Val	Asn	Gly	Lys	Glu	370	375		380
Gln	Thr	Met	Ser	Glu	Cys	Glu	Ala	Gly	Ala	Leu	Arg	Cys	Arg	Gly	Gln	385	390	395	400
Ser	Ile	Ser	Val	Thr	Ser	Ile	Arg	Pro	Cys	Ala	Ala	Glu	Thr	Gln		405	410		415

384

<210> 438
 <211> 285
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 438
 Leu Ile Arg Leu Thr Ile Gly Lys Ala Gly Ser Leu Gln Tyr Arg Xaa
 1 5 10 15
 Xaa Xaa Phe Pro Gly Met Glu Ala Phe Leu Gly Ser Arg Ser Gly Leu
 20 25 30
 Trp Ala Gly Gly Pro Ala Pro Gly Gln Phe Tyr Arg Ile Pro Ser Thr
 35 40 45
 Pro Asp Ser Phe Met Asp Pro Ala Ser Ala Leu Tyr Arg Gly Pro Ile
 50 55 60
 Thr Arg Thr Gln Asn Pro Met Val Thr Gly Thr Ser Val Leu Gly Val
 65 70 75 80
 Lys Phe Glu Gly Gly Val Val Ile Ala Ala Asp Met Leu Gly Ser Tyr
 85 90 95
 Gly Ser Leu Ala Arg Phe Arg Asn Ile Ser Arg Ile Met Arg Val Asn
 100 105 110
 Asn Ser Thr Met Leu Gly Ala Ser Gly Asp Tyr Ala Asp Phe Gln Tyr
 115 120 125
 Leu Lys Gln Val Leu Gly Gln Met Val Ile Asp Glu Glu Leu Leu Gly
 130 135 140

385

Asp Gly His Ser Tyr Ser Pro Arg Ala Ile His Ser Trp Leu Thr Arg
 145 150 155 160
 Ala Met Tyr Ser Arg Arg Ser Lys Met Asn Pro Leu Trp Asn Thr Met
 165 170 175
 Val Ile Gly Gly Tyr Ala Asp Gly Glu Ser Phe Leu Gly Tyr Val Asp
 180 185 190
 Met Leu Gly Val Ala Tyr Glu Ala Pro Ser Leu Ala Thr Gly Tyr Gly
 195 200 205
 Ala Tyr Leu Ala Gln Pro Leu Leu Arg Glu Val Leu Glu Lys Gln Pro
 210 215 220
 Val Leu Ser Gln Thr Glu Ala Arg Asp Leu Val Glu Arg Cys Met Arg
 225 230 235 240
 Val Leu Tyr Tyr Arg Asp Ala Arg Ser Tyr Asn Arg Phe Gln Ile Ala
 245 250 255
 Thr Val Thr Glu Lys Gly Val Glu Ile Glu Gly Pro Leu Ser Thr Glu
 260 265 270
 Thr Asn Trp Asp Ile Ala His Met Ile Ser Gly Phe Glu
 275 280 285

<210> 439

<211> 185

<212> PRT

<213> Homo sapiens

<400> 439

Asn Ser Ala Ala His Lys Lys Gly Lys Leu Pro Ile Val Asn Glu Asp
 1 5 10 15
 Asp Glu Leu Val Ala Ile Ile Ala Arg Thr Asp Leu Lys Lys Asn Arg
 20 25 30
 Asp Tyr Pro Leu Ala Ser Lys Asp Ala Lys Lys Gln Leu Leu Cys Gly
 35 40 45
 Ala Ala Ile Gly Thr His Glu Asp Asp Lys Tyr Arg Leu Asp Leu Leu
 50 55 60
 Ala Gln Ala Gly Val Asp Val Val Val Leu Asp Ser Ser Gln Gly Asn
 65 70 75 80
 Ser Ile Phe Gln Ile Asn Met Ile Lys Tyr Ile Lys Asp Lys Tyr Pro

386

	85		90		95
Asn Leu Gln Val Ile Gly Gly Asn Val Val Thr Ala Ala Gln Ala Lys					
	100		105		110
Asn Leu Ile Asp Ala Gly Val Asp Ala Leu Arg Val Gly Met Gly Ser					
	115		120		125
Gly Ser Ile Cys Ile Thr Gln Glu Val Leu Ala Cys Gly Arg Pro Gln					
	130		135		140
Ala Thr Ala Val Tyr Lys Val Ser Glu Tyr Ala Arg Arg Phe Gly Val					
	145		150		155
					160
Pro Val Ile Ala Asp Gly Gly Ile Gln Asn Val Gly His Ile Ala Lys					
	165		170		175
Ala Leu Ala Leu Gly Ala Pro Gln Ser					
	180		185		

<210> 440

<211> 211

<212> PRT

<213> Homo sapiens

<400> 440

Leu Gln Gly Arg Ser Thr Pro Ile Trp Pro Ala Leu Ala Thr Val Thr					
1		5		10	15
Ser Arg Thr Pro Ala Leu Gly Pro Gln Ala Gly Ile Asp Thr Asn Glu					
	20		25		30
Ile Ala Pro Leu Glu Pro Asp Ala Pro Pro Asp Ala Cys Glu Ala Ser					
	35		40		45
Phe Asp Ala Val Ser Thr Ile Arg Gly Glu Leu Phe Phe Phe Lys Ala					
	50		55		60
Gly Phe Val Trp Arg Leu Arg Gly Gly Gln Leu Gln Pro Gly Tyr Pro					
	65		70		75
					80
Ala Leu Ala Ser Arg His Trp Gln Gly Leu Pro Ser Pro Val Asp Ala					
	85		90		95
Ala Phe Glu Asp Ala Gln Gly His Ile Trp Phe Phe Gln Gly Ala Gln					
	100		105		110
Tyr Trp Val Tyr Asp Gly Glu Lys Pro Val Leu Gly Pro Ala Pro Leu					
	115		120		125

387

Thr Glu Leu Gly Leu Val Arg Phe Pro Val His Ala Ala Leu Val Trp
 130 135 140
 Gly Pro Glu Lys Asn Lys Ile Tyr Phe Phe Arg Gly Arg Asp Tyr Trp
 145 150 155 160
 Arg Phe His Pro Ser Thr Arg Arg Val Asp Ser Pro Val Pro Arg Arg
 165 170 175
 Pro Leu Thr Gly Glu Gly Cys Pro Leu Arg Ser Thr Leu Pro Ser Arg
 180 185 190
 Met Leu Met Ala Met Pro Thr Ser Cys Ala Ala Ala Ser Thr Gly Ser
 195 200 205
 Leu Thr Leu
 210

<210> 441

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441

Gly Gly Ala Gly Lys Leu Leu Ser Phe Thr His Ser Ala Pro Trp Ser
 1 5 10 15
 Arg Leu Trp Ser Ser Leu Gly Lys Arg Val Thr Gly Glu Ser Gln Gly
 20 25 30
 Leu Glu Lys Leu Pro Gly Thr Xaa Asp Gly Leu Ala Ala Leu Thr Gln
 35 40 45
 Asp Pro Leu Pro Leu Pro Pro Pro Leu Cys Arg Asn Thr Gly Thr Pro
 50 55 60
 Arg Gly Lys Met Ser Phe Ser Arg Leu Gln Phe Ser Pro Arg Lys Leu
 65 70 75 80

<210> 442
<211> 567
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (503)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (517)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (535)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (546)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 442
Asn Val His Leu Tyr Ile Met Tyr Tyr Met Glu Ala Lys His Ala Val
1 5 10 15

Ser Phe Met Thr Cys Thr Gln Asn Val Ala Pro Asp Met Phe Arg Thr

389

	20		25		30	
Ile	Pro	Pro	Glu	Ala	Asn	Ile
	35		40		45	
Met	Met	His	Glu	His	His	Lys
	50		55		60	
Leu	Leu	Gln	Gln	Pro	Lys	Arg
	65		70		75	
Asp	Phe	Tyr	Ser	Leu	Leu	Ser
			85		90	
Val	His	Val	His	Lys	Tyr	Asn
			100		105	
Asp	Leu	Val	Ala	Glu	Ile	Ala
	115				120	
Arg	Ser	Asp	Ala	Arg	Glu	Gly
	130				135	
Leu	Val	Arg	Asp	Arg	Ile	His
	145				150	
Arg	Pro	Pro	Glu	Ser	Arg	Val
			165		170	
Glu	Gly	Thr	Trp	Glu	Pro	Glu
			180		185	
Ala	Leu	Asp	Trp	Pro	Gly	Val
	195				200	
Val	Ala	Leu	Xaa	Pro	Lys	Asn
	210				215	
His	Val	Trp	Asp	Gly	Asn	Ser
	225				230	
Ile	Gly	Leu	Gly	Pro	Ile	Glu
			245		250	
Asn	Asn	Ala	Ala	Val	Leu	Gln
			260		265	
Pro	His	Gly	Leu	Ser	Ile	Asp
	275				280	
Val	Ala	Leu	His	Gln	Val	Phe

390

290		295		300
Pro Val Leu Ile Leu Gly Arg Ser Met Gln Pro Gly Ser Asp Gln Asn				
305		310		315 320
His Phe Cys Gln Pro Thr Asp Val Ala Val Asp Pro Gly Thr Gly Ala				
	325		330	335
Ile Tyr Val Ser Asp Gly Tyr Cys Asn Ser Arg Ile Val Gln Phe Ser				
	340		345	350
Pro Ser Gly Lys Phe Ile Thr Gln Trp Gly Glu Glu Ser Ser Gly Ser				
	355		360	365
Ser Pro Leu Pro Gly Gln Phe Thr Val Pro His Ser Leu Ala Leu Val				
	370		375	380
Pro Leu Leu Gly Gln Leu Cys Val Ala Asp Arg Glu Asn Gly Arg Ile				
385		390		395 400
Gln Cys Phe Lys Thr Asp Thr Lys Glu Phe Val Arg Glu Ile Lys His				
	405		410	415
Ser Ser Phe Gly Arg Asn Val Phe Ala Ile Ser Tyr Ile Pro Gly Leu				
	420		425	430
Leu Phe Ala Val Asn Gly Lys Pro His Phe Gly Asp Gln Glu Pro Val				
	435		440	445
Gln Gly Phe Val Met Asn Phe Ser Asn Gly Glu Ile Ile Asp Ile Phe				
	450		455	460
Lys Pro Val Arg Xaa Leu Leu Asp Met Pro His Asp Ile Val Ala Ser				
465		470		475 480
Glu Asp Gly Thr Val Tyr Ile Gly Arg Cys Ser Tyr Gln His Arg Val				
	485		490	495
Gly Ser Ser Thr Leu Asp Xaa Arg Xaa Leu Gly Thr Ser Val Gln Phe				
	500		505	510
Lys Lys Gly Leu Xaa Ile Glu Val Gln Gly Asn Pro Lys Lys Pro Glu				
	515		520	525
Gly Ile Cys Cys Phe Pro Xaa Thr Thr Leu Arg Val Ile Pro Val Val				
	530		535	540
Gly Xaa Trp Arg Gly His Gly Pro Asn Leu Ile Pro Val Gly Lys Asn				
545		550		555 560
Pro Arg Gly Pro Leu Gly Arg				

565

<210> 443
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 443
 Arg Pro Ser Cys Ser Pro Gly Ser Val Ser Ala Ala Ala Val Asn Met
 1 5 10 15
 Glu Pro Pro Asp Ala Pro Ala Gln Ala Arg Gly Ala Pro Arg Leu Leu
 20 25 30
 Leu Leu Ala Val Leu Leu Ala Ala His Pro Asp Ala Gln Ala Glu Val
 35 40 45
 Arg Leu Ser Val Pro Pro Leu Val Glu Val Met Arg Gly Lys Ser Val
 50 55 60
 Ile Leu Asp Cys Thr Pro Thr Gly Thr His Asp His Tyr Met Leu Glu
 65 70 75 80
 Trp Phe Leu Thr Asp Arg Ser Gly Ala Arg Pro Arg Leu Ala Ser Ala
 85 90 95
 Glu Met Gln Gly Ser Glu Leu Gln Val Thr Met His Asp Thr Arg Gly
 100 105 110
 Arg Ser Pro Pro Tyr Gln Leu Gly Leu Pro Xaa Gly Ala Trp Xaa Leu
 115 120 125

Xaa

392

<210> 444

<211> 131

<212> PRT

<213> Homo sapiens

<400> 444

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Glu Pro Arg Val Glu Arg Glu Thr Pro Gly Gln Pro Phe Ser Ser Ser
 1             5             10             15

Phe Pro Ser Pro Ser Pro Phe Pro Asn Val Ala Ser Met Trp Val Leu
          20             25             30

Gly Thr Trp Glu Lys Pro Leu Leu Cys His Phe Phe Ser Leu Phe Pro
 35             40             45

Ser Ser Pro Pro Thr Val Trp Leu Met Met Ser Ser Gly Val Met Val
 50             55             60

Thr Thr Pro Cys Ser Leu Phe Trp Tyr Phe Pro Cys Gln Phe Pro Leu
 65             70             75             80

Ser Ala Arg Leu Cys Pro Lys Ile Pro Ser Ala Ser Ser Leu His Val
          85             90             95

Ala Glu Gly Pro Gly Leu Pro Gln Val Pro Cys Leu Ser Asn Lys Val
          100             105             110

Glu Thr Ile Lys Pro Gly Lys Lys Lys Lys Gly Gly Arg Ser Lys Gly
 115             120             125

Ser Pro Arg
 130

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<210> 445

<211> 405

<212> PRT

<213> Homo sapiens

<400> 445

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Gly Thr Gly Leu Val Pro Ile Arg Gln Ser Thr Lys Phe Asp Ser Ser
 1             5             10             15

Leu Asp Arg Lys Asp Lys Phe Ser Phe Asp Leu Gly Lys Gly Glu Val
          20             25             30

Ile Lys Ala Trp Asp Ile Ala Ile Ala Thr Met Lys Val Gly Glu Val

```

35	40	45																	
Cys	His	Ile	Thr	Cys	Lys	Pro	Glu	Tyr	Ala	Tyr	Gly	Ser	Ala	Gly	Ser				
50						55					60								
Pro	Pro	Lys	Ile	Pro	Pro	Asn	Ala	Thr	Leu	Val	Phe	Glu	Val	Glu	Leu				
65					70				75						80				
Phe	Glu	Phe	Lys	Gly	Glu	Asp	Leu	Thr	Glu	Glu	Glu	Asp	Gly	Gly	Ile				
				85					90					95					
Ile	Arg	Arg	Ile	Gln	Thr	Arg	Gly	Glu	Gly	Tyr	Ala	Lys	Pro	Asn	Glu				
			100					105					110						
Gly	Ala	Ile	Val	Glu	Val	Ala	Leu	Glu	Gly	Tyr	Tyr	Lys	Asp	Lys	Leu				
	115						120					125							
Phe	Asp	Gln	Arg	Glu	Leu	Arg	Phe	Glu	Ile	Gly	Glu	Gly	Glu	Asn	Leu				
130						135					140								
Asp	Leu	Pro	Tyr	Gly	Leu	Glu	Arg	Ala	Ile	Gln	Arg	Met	Glu	Lys	Gly				
145					150					155					160				
Glu	His	Ser	Ile	Val	Tyr	Leu	Lys	Pro	Ser	Tyr	Ala	Phe	Gly	Ser	Val				
			165						170					175					
Gly	Lys	Glu	Lys	Phe	Gln	Ile	Pro	Pro	Asn	Ala	Glu	Leu	Lys	Tyr	Glu				
			180					185					190						
Leu	His	Leu	Lys	Ser	Phe	Glu	Lys	Ala	Lys	Glu	Ser	Trp	Glu	Met	Asn				
	195						200					205							
Ser	Glu	Glu	Lys	Leu	Glu	Gln	Ser	Thr	Ile	Val	Lys	Glu	Arg	Gly	Thr				
210						215					220								
Val	Tyr	Phe	Lys	Glu	Gly	Lys	Tyr	Lys	Gln	Ala	Leu	Leu	Gln	Tyr	Lys				
225					230				235						240				
Lys	Ile	Val	Ser	Trp	Leu	Glu	Tyr	Glu	Ser	Ser	Phe	Ser	Asn	Glu	Glu				
			245					250					255						
Ala	Gln	Lys	Ala	Gln	Ala	Leu	Arg	Leu	Ala	Ser	His	Leu	Asn	Leu	Ala				
		260					265						270						
Met	Cys	His	Leu	Lys	Leu	Gln	Ala	Phe	Ser	Ala	Ala	Ile	Glu	Ser	Cys				
	275						280					285							
Asn	Lys	Ala	Leu	Glu	Leu	Asp	Ser	Asn	Asn	Glu	Lys	Gly	Leu	Phe	Arg				
290						295					300								
Arg	Gly	Glu	Ala	His	Leu	Ala	Val	Asn	Asp	Phe	Glu	Leu	Ala	Arg	Ala				

394

305 310 315 320
 Asp Phe Gln Lys Val Leu Gln Leu Tyr Pro Asn Asn Lys Ala Ala Lys
 325 330 335
 Thr Gln Leu Ala Val Cys Gln Gln Arg Ile Arg Arg Gln Leu Ala Arg
 340 345 350
 Glu Lys Lys Leu Tyr Ala Asn Met Phe Glu Arg Leu Ala Glu Glu Glu
 355 360 365
 Asn Lys Ala Lys Ala Glu Ala Ser Ser Gly Asp His Pro Thr Asp Thr
 370 375 380
 Glu Met Lys Glu Glu Gln Lys Ser Asn Thr Ala Gly Ser Gln Ser Gln
 385 390 395 400
 Val Glu Thr Glu Ala
 405

<210> 446

<211> 232

<212> PRT

<213> Homo sapiens

<400> 446

Pro Leu Val Pro Ser Ser Gln Lys Ala Leu Leu Leu Glu Leu Lys Gly
 1 5 10 15
 Leu Gln Glu Glu Pro Val Glu Gly Phe Arg Val Thr Leu Val Asp Glu
 20 25 30
 Gly Asp Leu Tyr Asn Trp Glu Val Ala Ile Phe Gly Pro Pro Asn Thr
 35 40 45
 Tyr Tyr Glu Gly Gly Tyr Phe Lys Ala Arg Leu Lys Phe Pro Ile Asp
 50 55 60
 Tyr Pro Tyr Ser Pro Pro Ala Phe Arg Phe Leu Thr Lys Met Trp His
 65 70 75 80
 Pro Asn Ile Tyr Glu Thr Gly Asp Val Cys Ile Ser Ile Leu His Pro
 85 90 95
 Pro Val Asp Asp Pro Gln Ser Gly Glu Leu Pro Ser Glu Arg Trp Asn
 100 105 110
 Pro Thr Gln Asn Val Arg Thr Ile Leu Leu Ser Val Ile Ser Leu Leu
 115 120 125

395

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Asn Glu Pro Asn Thr Phe Ser Pro Ala Asn Val Asp Ala Ser Val Met
  130                      135                      140

Tyr Arg Lys Trp Lys Glu Ser Lys Gly Lys Asp Arg Glu Tyr Thr Asp
145                      150                      155                      160

Ile Ile Arg Lys Gln Val Leu Gly Thr Arg Trp Thr Arg Val Asn Gly
                      165                      170                      175

Val Lys Val Pro Thr Thr Leu Ala Glu Tyr Cys Val Lys Thr Lys Ala
                      180                      185                      190

Pro Ala Pro Asp Glu Gly Ser Asp Leu Phe Tyr Asp Asp Tyr Tyr Glu
                      195                      200                      205

Asp Gly Glu Val Glu Glu Glu Ala Asp Ser Cys Phe Gly Asp Asp Glu
  210                      215                      220

Asp Asp Ser Gly Thr Glu Glu Ser
225                      230

```

<210> 447

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447

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Cys Ser Pro Pro Pro Pro Pro Ala Ala Ala Ala Xaa Ala Ala Ala Ala

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396

1	5	10	15
Ala Met Ala Gln Tyr Lys Gly Ala Ala Ser Glu Ala Gly Arg Ala Met	20	25	30
His Leu Met Lys Lys Arg Glu Lys Gln Arg Glu Gln Met Glu Gln Met	35	40	45
Lys Gln Arg Ile Xaa Glu Glu Asn Ile Met Lys Ser Asn Ile Asp Lys	50	55	60
Lys Phe Ser Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser	65	70	75
Thr Val Gly Leu Val Thr Leu Asn Asp Met Lys Ala Lys Gln Glu Ala	85	90	95
Leu Val Lys Glu Arg Glu Lys Gln Leu Ala Lys Lys Glu Gln Ser Lys	100	105	110
Glu Leu Gln Met Lys Leu Glu Lys Leu Arg Glu Lys Glu Arg Lys Lys	115	120	125
Glu Ala Lys Arg Lys Ile Ser Ser Leu Ser Phe Thr Leu Glu Glu Glu	130	135	140
Glu Glu Gly Gly Glu Glu Glu Glu Glu Ala Ala Met Tyr Glu Glu Glu	145	150	155
Met Glu Arg Glu Glu Ile Thr Thr Lys Lys Arg Lys Leu Gly Lys Asn	165	170	175
Pro Asp Val Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu Xaa Glu	180	185	190
Glu Asn Arg Leu Arg Glu Glu Leu Arg Gln Glu Trp Glu Ala Lys Gln	195	200	205
Glu Lys Ile Lys Ser Glu Glu Ile Glu Ile Thr Phe Ser Tyr Trp Asp	210	215	220
Gly Ser Gly His Arg Arg Thr Val Lys Met Arg Lys Gly Asn Thr Met	225	230	235
Gln Gln Phe Leu Gln Lys Ala Leu Glu Ile Leu Arg Lys Asp Phe Ser	245	250	255
Glu Leu Arg Ser Ala Gly Xaa Glu Gln Leu Met Tyr Ile Lys Glu Asp	260	265	270
Leu Ile Ile Pro His His His Ser Phe Tyr Asp Phe Ile Val Thr Lys			

397

275 280 285
 Ala Arg Gly Lys Ser Gly Pro Leu Phe Asn Phe Asp Val His Asp Asp
 290 295 300
 Val Arg Leu Leu Ser Asp Ala Thr Val Glu Lys Asp Glu Ser His Ala
 305 310 315 320
 Gly Lys Val Val Leu Arg Ser Trp Tyr Glu Lys Asn Lys His Ile Phe
 325 330 335
 Pro Ala Ser Arg Trp Glu Pro Tyr Asp Pro Glu Lys Lys Trp Asp Lys
 340 345 350
 Tyr Thr Ile Arg
 355

<210> 448
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 448
 Lys Thr His Lys Met Cys Asp Ala Phe Val Gly Thr Trp Lys Leu Val
 1 5 10 15
 Ser Ser Glu Asn Phe Asp Asp Tyr Met Lys Glu Val Gly Val Gly Phe
 20 25 30
 Ala Thr Arg Lys Val Ala Gly Met Ala Lys Pro Asn Met Ile Ile Ser
 35 40 45
 Val Asn Gly Asp Val Ile Thr Ile Lys Ser Glu Ser Thr Phe Lys Asn
 50 55 60
 Thr Glu Ile Ser Phe Ile Leu Gly Gln Glu Phe Asp Glu Ala Leu Gln
 65 70 75 80
 Met Thr Gly Lys Ser Arg Ala Pro
 85

<210> 449
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>

398

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 449

Leu Ile Leu Val Leu Met Phe Val Val Trp Met Lys Arg Arg Asp Lys
 1 5 10 15

Glu Arg Gln Ala Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg
 20 25 30

Asp Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln
 35 40 45

Asp Tyr Asp Leu Ser Gln Leu Gln Gln Pro Asp Thr Val Glu Pro Asp
 50 55 60

Ala Ile Lys Pro Val Gly Ile Xaa Arg Met Asp Glu Arg Pro Ile His
 65 70 75 80

Ala Glu Pro Gln Tyr Pro Val Arg Ser Ala Ala Pro His Pro Gly Asp
 85 90 95

Ile Gly Asp Phe Ile Asn Glu Gly Leu Lys Ala Ala Asp Asn Asp Pro
 100 105 110

Thr Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser
 115 120 125

Gly Ser Thr Xaa Gly Ser Leu Ser Ser Leu Asn Ser Ser Ser Ser Gly
 130 135 140

Gly Glu Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys
 145 150 155 160

Lys Leu Ala Asp Met Tyr Gly Gly Gly Asp Asp
 165 170

<210> 450

<211> 34

<212> PRT

<213> Homo sapiens

<400> 450

399

Lys Val Lys Ala Cys Cys Lys Asp Ile Phe Phe Leu Leu Leu Glu Gly
 1 5 10 15
 Asn Thr Lys Arg Lys Ile Ser Phe Phe His Gly Ala Phe Asp Asn Phe
 20 25 30
 Ser Leu

<210> 451
 <211> 148
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 451
 Arg Thr Leu His Pro Ala Thr Gly Pro Arg Ala Arg Pro Pro Arg Gly
 1 5 10 15
 Trp Arg Arg Arg Leu Cys Ala Gln Gly Pro Ala Pro Asp Trp Asp Pro
 20 25 30
 Gly Val Pro Pro Gly Leu Ala Ser Cys Gly Xaa Thr Val Trp Leu His
 35 40 45
 Phe Ser Asp Pro Ser Leu Gly Arg Lys Val Lys Glu Thr Gly Pro Ala
 50 55 60
 Ser Ala Phe Gly Leu Trp Phe Leu Asp Arg Val Leu Ser Pro Ser Pro
 65 70 75 80
 Pro Ser Ser Pro Asn Leu Ser His Xaa Arg Pro Leu Pro Ala Ala Pro
 85 90 95
 Ser Leu Leu Gly Ile Gly Ser Pro Glu Pro Pro Ser Pro Glu Pro Pro
 100 105 110
 Thr Pro Leu Pro Gly Pro Cys Gly Cys Trp Ala Ser His Leu Lys Glu
 115 120 125

400

Gly Lys Val Val Gln Pro Glu Pro Val Glu Gln Cys Pro Val Trp Pro
 130 135 140

Pro Lys Pro Lys
 145

<210> 452
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 452
 Asp Ser His Arg Pro Arg Ala Met Arg Ala Leu Trp Val Leu Gly Leu
 1 5 10 15

Ser Cys Xaa Leu Leu Thr Phe Gly Ser Val Arg Xaa Asp Asp Glu Val
 20 25 30

Asp Val Asp Gly Thr Val Glu Glu Asp Leu Gly Lys Ser Arg Glu Gly
 35 40 45

Ser Arg Thr Asp Asp Glu Val Val Gln Arg Glu Glu Glu Ala Ile Xaa
 50 55 60

401

Val Gly Trp Ile Lys Cys Ile Pro Asn Lys Arg Thr Xaa Glu Xaa Lys
 65 70 75 80

Ser Arg Lys

<210> 453

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Gly Trp Leu Pro Cys Gly Ser Ser Val Val Pro Ala Thr Pro Gly Ser
 1 5 10 15

Pro Pro Ser Arg Phe Trp Leu Leu Pro Ala Met Ala Leu Arg Val Leu
 20 25 30

Leu Leu Thr Ala Leu Thr Leu Cys His Gly Phe Asn Leu Asp Thr Glu
 35 40 45

Asn Ala Met Thr Phe Gln Glu Asn Ala Arg Gly Phe Gly Gln Ser Val
 50 55 60

Val Gln Leu Gln Gly Ser Arg Val Val Val Gly Ala Pro Gln Glu Ile
 65 70 75 80

Val Ala Ala Asn Gln Arg Gly Ser Leu Tyr Gln Cys Asp Tyr Ser Thr
 85 90 95

Gly Ser Cys Glu Pro Ile His Leu Gln Val Pro Val Glu Ala Val Asn
 100 105 110

Met Ser Leu Gly Leu Ser Leu Ala Ala Thr Thr Ser Pro Pro Gln Leu
 115 120 125

Leu Ala Cys Gly Pro Thr Val His Gln Thr Cys Ser Glu Asn Thr Tyr
 130 135 140

Val Lys Gly Leu Cys Phe Leu Phe Gly Ser Asn Leu Arg Gln Gln Pro
 145 150 155 160

Gln Lys Phe Pro Glu Ala Leu Arg Gly Cys Pro Gln Glu Asp Ser Asp
 165 170 175

402

Ile Ala Phe Leu Ile Asp Gly Ser Gly Ser Ile Ile Pro His Asp Phe
 180 185 190

Arg Arg Met Lys Glu Phe Val Ser Thr Val Met Glu Gln Leu Lys Lys
 195 200 205

Ser Lys Thr Leu Phe Ser Leu Met Gln Tyr Ser Glu Glu Phe Arg Ile
 210 215 220

His Phe Thr Ser Lys Ser Ser Arg Thr Xaa Leu Thr Gln Asp His Trp
 225 230 235 240

<210> 454

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 454

Lys Trp Cys Ser Trp Thr Leu Leu Lys Ile Trp Glu Val Thr Cys Thr
 1 5 10 15

Trp Lys Leu Pro Thr Leu Ala Lys Phe Ser Pro Tyr Leu Gly Gln Met
 20 25 30

Ile Asn Leu Arg Arg Leu Leu Leu Ser His Ile His Ala Ser Ser Tyr

403

35					40					45					
Ile	Ser	Pro	Glu	Lys	Glu	Glu	Gln	Tyr	Ile	Ala	Gln	Phe	Thr	Ser	Gln
50						55				60					
Phe	Leu	Ser	Leu	Gln	Cys	Leu	Gln	Leu	Leu	Tyr	Val	Asp	Ser	Leu	Phe
65				70						75				80	
Phe	Leu	Arg	Gly	Arg	Leu	Asp	Gln	Leu	Leu	Arg	His	Val	Met	Asn	Pro
				85				90						95	
Leu	Glu	Thr	Leu	Ser	Ile	Thr	Asn	Cys	Arg	Leu	Ser	Glu	Gly	Asp	Val
		100						105				110			
Met	His	Leu	Ser	Gln	Ser	Pro	Ser	Val	Ser	Gln	Leu	Ser	Val	Leu	Ser
		115				120						125			
Leu	Ser	Gly	Val	Met	Leu	Thr	Asp	Val	Ser	Pro	Glu	Pro	Leu	Gln	Ala
130						135				140					
Leu	Leu	Glu	Arg	Ala	Ser	Ala	Thr	Leu	Gln	Asp	Leu	Val	Phe	Asp	Glu
145				150						155				160	
Cys	Gly	Ile	Thr	Asp	Asp	Gln	Leu	Leu	Ala	Leu	Leu	Pro	Ser	Leu	Ser
				165				170						175	
His	Cys	Ser	Gln	Leu	Thr	Thr	Leu	Ser	Phe	Tyr	Gly	Asn	Ser	Ile	Ser
		180						185				190			
Ile	Ser	Ala	Leu	Gln	Ser	Leu	Leu	Gln	His	Leu	Ile	Gly	Xaa	Ser	Asn
195						200						205			
Leu	Thr	His	Val	Leu	Tyr	Pro	Val	Pro	Leu	Glu	Ser	Tyr	Glu	Asp	Ile
210						215				220					
His	Gly	Xaa	Leu	Xaa	Leu	Glu	Arg	Leu	Leu	Ser	Ala	Cys	Gln	Xaa	Gln
225				230						235				240	
Gly		Val		Ala		Val									

<210> 455

<211> 195

<212> PRT

<213> Homo sapiens

<400> 455

His Glu Gly Thr Gln Ser Phe Val Phe Gln Arg Glu Glu Ile Ala Gln
1 5 10 15

404

Leu Ala Arg Gln Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg
 20 25 30
 Leu Ile Val Glu Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp
 35 40 45
 Glu Glu Leu Gln Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala
 50 55 60
 Met Cys Leu Leu His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly
 65 70 75 80
 Thr Ala Leu Gly Ser Arg Gly His Ser Gly Arg Tyr Trp Ala Glu Ile
 85 90 95
 Ser Asp Thr Ile Ile Ser Gly Thr Phe His Gln Trp Arg Glu Gly Thr
 100 105 110
 Thr Lys Ser Glu Val Phe Tyr Pro Gly Glu Thr Val Val His Gly Pro
 115 120 125
 Gly Glu Ala Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu
 130 135 140
 Tyr Gly Arg Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp
 145 150 155 160
 Thr Val Phe Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg
 165 170 175
 Ser Tyr Ala Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly
 180 185 190
 Gln Asp Pro
 195

<210> 456

<211> 36

<212> PRT

<213> Homo sapiens

<400> 456

Leu Val Thr Leu Leu His Ala Met Gln Ala Arg Asp Lys Thr Leu Gly
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Ile Ala Met Val Ile
 20 25 30

405

Glu Arg Leu Asn
35

<210> 457
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457
Val Thr Ala Ala Ala Ser Val Arg Ala Leu Gln Val Thr Val Ala Gly
1 5 10 15
Leu Leu Leu Val Phe Phe Leu Phe Gly Ala Pro Leu Asp Ser Leu Pro
20 25 30
Ser Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys
35 40 45
Cys Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly
50 55 60
Pro Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys
65 70 75 80
Tyr Ser Arg Leu Arg Xaa Leu Val Pro Gly Val Pro Arg Gly Thr Gln
85 90 95
Leu Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp
100 105 110
Leu Xaa Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro
115 120 125
His Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser
130 135 140
Asn Asp Lys Arg Ser Phe Cys His
145 150

406

<210> 458

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Leu Leu Asn Asn Phe Ile Phe Leu Glu Thr His Tyr Leu Trp Ala Cys

1

5

10

15

Xaa Thr Trp Thr Ile Trp Pro Asn Xaa Leu Asp Lys Lys Gly Xaa

20

25

30

<210> 459

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

407

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

Asp Pro Arg Val Arg Glu Thr Thr Val Lys Ala Arg Ala Arg Ser Gln
 1 5 10 15

His Ala Gly Gly Pro Glu Leu Gly Leu Ser Gln Xaa Tyr Val Thr Pro
 20 25 30

Arg Arg Pro Phe Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile
 35 40 45

Gly Glu Tyr Gly Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe
 50 55 60

Thr Leu Ala Lys Ile Arg Lys Xaa Ala Arg Glu Leu Leu Thr Leu Asp
 65 70 75 80

Glu Lys Asp Pro Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg
 85 90 95

Leu Val Arg Ile Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr
 100 105 110

Ile Leu Gly Leu Lys Met Arg Ile Leu Gly Glu Xaa Ser Ala Asp Pro
 115 120 125

Gly Xaa Ser Ser Trp Gly Trp Pro Ile His Pro Pro Cys Pro Val Leu
 130 135 140

Ile Arg Gln Ala Thr Gln Val Arg Lys Gln Val Val Asn
 145 150 155

<210> 460

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

408

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Ile	Trp	Ala	Pro	Phe	Pro	His	His	Gln	Gly	Ser	Gly	Ser	Gln	Val	Ser
1				5					10					15	

Ser	Tyr	Gly	Thr	Gly	Ala	Leu	Lys	Ser	His	Ile	Met	Ala	Ala	Lys	Ala
			20					25					30		

Val	Ala	Asn	Thr	Met	Arg	Thr	Ser	Leu	Gly	Pro	Asn	Gly	Leu	Asp	Lys
		35					40					45			

Met	Met	Val	Asp	Lys	Asp	Gly	Asp	Val	Thr	Val	Thr	Asn	Asp	Gly	Ala
	50					55					60				

Thr	Ile	Leu	Ser	Met	Met	Asp	Val	Asp	His	Gln	Ile	Ala	Lys	Leu	Met
65					70					75					80

Val	Glu	Leu	Ser	Lys	Ser	Gln	Asp	Asp	Glu	Ile	Gly	Asp	Gly	Asp	His
				85					90					95	

Gly	Gly	Gly	Cys	Pro	Gly	Arg	Arg	Pro	Ala	Gly	Arg	Arg	Pro	Ser	Ser
			100					105					110		

Cys	Trp	Thr	Ala	Ala	Phe	Xaa	Arg	Ser	Gly	Ser	Pro	Thr	Val	Thr	Ser
		115					120					125			

Arg	Xaa	Pro	Ala	Leu	Ala	Xaa	Glu
	130					135	

<210> 461

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (375)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (382)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (383)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (386)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (387)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 461
 Cys Gly Asn Trp Trp Val Pro Arg Ala Gly Xaa Asn Trp Xaa Arg Gly
 1 5 10 15
 Ser Arg Phe Leu Phe Val Asp Arg Cys Asp Arg His Leu Thr Met Gln
 20 25 30
 Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
 35 40 45
 Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu
 50 55 60
 Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu
 65 70 75 80
 Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr
 85 90 95
 Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys
 100 105 110
 Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr
 115 120 125

Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	
130						135				140						
Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	
145						150				155					160	
Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His	Leu	Val	
165						170				175						
Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	
180						185				190						
Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	
195						200				205						
Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	
210						215				220						
Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	
225						230				235					240	
Tyr	Asn	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	
245						250				255						
Gly	Gly	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	
260						265				270						
Leu	Glu	Val	Glu	Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	
275						280				285						
Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	
290						295				300						
Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	
305						310				315					320	
Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln	
325						330				335						
Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	
340						345				350						
Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Arg	Ser	Arg	Gln	Gly	Arg	
355						360				365						
His	Pro	Pro	Asp	Gln	Gln	Xaa	Leu	Ile	Leu	Leu	Gly	Lys	Xaa	Xaa	Lys	
370						375				380						
Trp	Xaa	Xaa	Pro	Phe	Asp											
385						390										

411

<210> 462

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 462

Cys	Ser	Thr	Val	Arg	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Leu	Ser
1				5					10					15	

Arg	Arg	Ala	Ser	Pro	Val	Tyr	Leu	Ala	Ser	Met	Ser	Gly	Arg	Gly	Lys
		20					25						30		

Thr	Gly	Gly	Lys	Ala	Arg	Ala	Lys	Ala	Lys	Ser	Arg	Ser	Ser	Arg	Ala
	35						40					45			

Gly	Leu	Gln	Phe	Pro	Val	Gly	Arg	Val	His	Arg	Leu	Leu	Arg	Lys	Gly
	50					55					60				

His	Tyr	Ala	Glu	Arg	Val	Gly	Ala	Gly	Xaa	Pro	Val	Tyr	Leu	Ala	Ala
65					70					75				80	

Val	Leu	Glu	Tyr	Leu	Thr	Ala	Glu	Ile	Leu	Glu	Leu	Ala	Gly	Asn	Ala
			85						90					95	

Ala	Arg	Asp	Asn	Lys	Lys	Thr	Arg	Ile	Ile	Pro	Arg	His	Leu	Gln	Leu
		100						105					110		

Ala	Ile	Arg	Asn	Asp	Glu	Glu	Leu	Asn	Lys	Leu	Leu	Gly	Gly	Val	Thr
		115					120					125			

412

Ile Ala Gln Gly Arg Arg Xaa Ala Gln His Pro Gly Arg Xaa Cys Cys
 130 135 140

Pro Arg Arg Pro Ala Pro Pro Trp Gly Arg Xaa Pro Phe Gly Gly Gln
 145 150 155 160

Glu Arg Ala Thr Lys Ala Ser Gln Gly Val Leu
 165 170

<210> 463

<211> 433

<212> PRT

<213> Homo sapiens

<400> 463

Arg Val Arg Ala Pro Pro Arg Pro Pro Leu Gly Pro Ser Arg Pro Ser
 1 5 10 15

His His Val His Pro Leu Gln Leu Pro Gly Ile Arg Glu Val Thr Ile
 20 25 30

Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala Asp Pro Ser Leu
 35 40 45

Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys Thr Leu Asn Asn
 50 55 60

Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn
 65 70 75 80

Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu Gln Lys Ser Ala
 85 90 95

Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly Leu
 100 105 110

Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu Ala
 115 120 125

Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe Lys Asn Lys Tyr
 130 135 140

Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val Val
 145 150 155 160

Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys Val Glu Leu Glu
 165 170 175

413

Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr Leu
 180 185 190
 Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr Ser
 195 200 205
 Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile
 210 215 220
 Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser Arg
 225 230 235 240
 Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu Thr Leu Gln Ala
 245 250 255
 Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr Arg Asn Glu Ile
 260 265 270
 Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala Glu Ile Asp Asn
 275 280 285
 Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile Ala Glu Ala Glu
 290 295 300
 Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala Lys Gln Glu Glu
 305 310 315 320
 Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu
 325 330 335
 Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile Glu
 340 345 350
 Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Ala
 355 360 365
 Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met Asn Ser Thr Gly
 370 375 380
 Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu Gly Gly Thr Met
 385 390 395 400
 Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly Pro Gly Leu Leu
 405 410 415
 Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg Arg Ser Ala Arg
 420 425 430

Asp

<210> 464
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464
 Gly Ser Gly Cys Val Phe Ala Ile Leu Gly Arg Arg Cys Ser Arg Pro
 1 5 10 15

Trp Arg Ile Trp Pro Gly Glu Pro Leu Gln Arg Ala Pro Pro Ala Ala
 20 25 30

Gly Thr Arg Trp Pro His Gly His Arg Ser Ser Pro Val Gly Thr Pro
 35 40 45

Gly Xaa Ala Pro Asn Val Pro Ala Ile Trp Gln Gln Pro Leu Trp Xaa
 50 55 60

Glu Tyr Ser Cys Glu Tyr Gly Ser Met Lys Phe Tyr Ala Leu Cys Gly

415

65						70						75						80
Phe	Gly	Gly	Val	Leu	Ser	Cys	Gly	Leu	Thr	His	Thr	Ala	Val	Val	Pro			
				85					90					95				
Leu	Asp	Leu	Val	Lys	Cys	Arg	Met	Gln	Val	Asp	Pro	Gln	Xaa	Tyr	Lys			
				100					105					110				
Gly	Xaa	Xaa	Asn	Xaa	Ile	Leu	Ile	Asn										
				115					120									

```
<210> 465
<211> 68
<212> PRT
<213> Homo sapiens
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```

<400> 465
Arg Ile Pro Ala Pro Ala Ser Ser Arg His Ser Gly Gly Arg Cys Ala
  1             5             10             15
Ala Gly Pro Arg Gly Pro Pro Ala Thr Ala Ser Arg Ala Leu Arg Ala
          20             25             30
Val His Arg Pro Leu Asp Ala Ala Arg Gly Arg Thr Gly Ser Thr Ser
          35             40             45
His Leu Cys Ser Ser Ser Tyr Thr Ile Gly Cys Leu Leu Trp Phe Ser
  50             55             60
Gln Lys Ala Met
  65

```

```
<210> 466
<211> 224
<212> PRT
<213> Homo sapiens
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```
<400> 466
Ala Thr Ile Leu Glu Arg Glu Ala Glu Gln Ser Arg Leu Gly Ala Thr
 1             5             10             15
Glu Arg Ala Ala Ala Ala Ala Met Asn Pro Glu Tyr Asp Tyr Leu Phe
          20             25             30
Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Ser Cys Leu Leu
    35             40             45
```

416

```

Leu Arg Phe Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile
  50                      55                      60

Gly Val Asp Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile
  65                      70                      75                      80

Lys Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile
                      85                      90                      95

Thr Ser Ser Tyr Tyr Arg Gly Ala His Gly Ile Ile Val Val Tyr Asp
      100                      105                      110

Val Thr Asp Gln Glu Ser Tyr Ala Asn Val Lys Gln Trp Leu Gln Glu
      115                      120                      125

Ile Asp Arg Tyr Ala Ser Glu Asn Val Asn Lys Leu Leu Val Gly Asn
      130                      135                      140

Lys Ser Asp Leu Thr Thr Lys Lys Val Val Asp Asn Thr Thr Ala Lys
      145                      150                      155                      160

Glu Phe Ala Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys
      165                      170                      175

Asn Ala Thr Asn Val Glu Gln Ala Phe Met Thr Met Ala Ala Glu Ile
      180                      185                      190

Lys Lys Arg Met Gly Pro Gly Ala Ala Ser Gly Gly Glu Arg Pro Asn
      195                      200                      205

Leu Lys Ile Asp Ser Thr Pro Val Lys Pro Ala Gly Gly Gly Cys Cys
      210                      215                      220

```

<210> 467

<211> 76

<212> PRT

<213> Homo sapiens

<400> 467

```

Ser Glu Ala Pro Gly Glu Ser Val Gly Thr Thr Pro Glu Ala Gln Met
  1                      5                      10                      15

Lys Thr Gly Pro Phe Ala Glu His Ser Asn Gln Leu Trp Asn Ile Ser
      20                      25                      30

Ala Val Pro Ser Trp Ser Lys Val Asn Gln Gly Leu Ile Arg Met Tyr

```

417

Lys Ala Glu Cys Leu Glu Lys Phe Pro Val Ile Gln His Phe Lys Phe
50 55 60

Gly Ser Leu Leu Pro Ile His Pro Val Thr Ser Gly
65 70 75

```
<210> 468
<211> 111
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 468
Ser Leu Ala Arg Thr Gly Pro Arg Ser Leu Ala Arg Pro Cys Arg Arg
1 5 10 15
Arg Pro Ala His Arg His Pro Leu Gln Pro Cys Pro Pro Gly Xaa Cys
20 25 30

418

Pro Arg Xaa Pro Thr Ala Asp Val Arg Arg Pro Arg His Arg Xaa Arg
 35 40 45

Xaa Glu Leu His Ala His Asn Val Thr Ser Pro Pro Ala Pro Thr Ala
 50 55 60

Trp Ala Ala Pro Ala Pro Gln His Gln Pro Gln Pro Leu Xaa Leu Val
 65 70 75 80

Pro Gly Arg Arg Val Cys Ser Arg Leu Leu Pro Arg Cys Ala Cys Gly
 85 90 95

Xaa Cys Cys Pro Gly Val Ala Leu Ala Gly Arg Ile Pro Trp Asn
 100 105 110

<210> 469

<211> 459

<212> PRT

<213> Homo sapiens

<400> 469

Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Leu Ser Ser Pro
 1 5 10 15

Ser Pro Val Cys Leu Pro Pro Ala Ala Ala Thr Met Thr Thr Ser Ile
 20 25 30

Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly Ser Ser Gly Leu Gly
 35 40 45

Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser Gly Gly Leu Gly Ala
 50 55 60

Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu Gly Ser Thr Leu Gly
 65 70 75 80

Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly Ser Gly Gly Gly Tyr
 85 90 95

Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu Ala Gly Gly Glu Lys
 100 105 110

Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys
 115 120 125

Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile Arg
 130 135 140

Asp	Trp	Tyr	Gln	Arg	Gln	Ala	Pro	Gly	Pro	Ala	Arg	Asp	Tyr	Ser	Gln	145	150	155	160
Tyr	Tyr	Arg	Thr	Ile	Glu	Glu	Leu	Gln	Asn	Lys	Ile	Leu	Thr	Ala	Thr	165	170	175	
Val	Asp	Asn	Ala	Asn	Ile	Leu	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala	180	185	190	
Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	Ala	Leu	Arg	Leu	195	200	205	
Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	Leu	Asp	Glu	Leu	210	215	220	
Thr	Leu	Ala	Arg	Ala	Asp	Leu	Glu	Met	Gln	Ile	Glu	Asn	Leu	Lys	Glu	225	230	235	240
Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	Met	Asn	Ala	Leu	245	250	255	
Arg	Gly	Gln	Val	Gly	Gly	Glu	Ile	Asn	Val	Glu	Met	Asp	Ala	Ala	Pro	260	265	270	
Gly	Val	Asp	Leu	Ser	Arg	Ile	Leu	Asn	Glu	Met	Arg	Asp	Gln	Tyr	Glu	275	280	285	
Lys	Met	Ala	Glu	Lys	Asn	Arg	Lys	Asp	Ala	Glu	Asp	Trp	Phe	Phe	Ser	290	295	300	
Lys	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala	Thr	Asn	Ser	Glu	Leu	Val	305	310	315	320
Gln	Ser	Gly	Lys	Ser	Glu	Ile	Ser	Glu	Leu	Arg	Arg	Thr	Met	Gln	Ala	325	330	335	
Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser	Met	Lys	Ala	Ser	Leu	Glu	340	345	350	
Gly	Asn	Leu	Ala	Glu	Thr	Glu	Asn	Arg	Tyr	Cys	Val	Gln	Leu	Ser	Gln	355	360	365	
Ile	Gln	Gly	Leu	Ile	Gly	Ser	Val	Glu	Glu	Gln	Leu	Ala	Gln	Leu	Arg	370	375	380	
Cys	Glu	Met	Glu	Gln	Gln	Asn	Gln	Glu	Tyr	Lys	Ile	Leu	Leu	Asp	Val	385	390	395	400
Lys	Thr	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	405	410	415	

420

Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys Glu Pro Val Thr Thr
 420 425 430

Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln Asp Gly Lys Val Ile
 435 440 445

Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg
 450 455

<210> 470

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Pro Pro Pro Pro Pro Pro Pro Glu Leu Cys Ser Met Ala Ser Arg Arg
 1 5 10 15

Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile Ile
 20 25 30

Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly
 35 40 45

Val Trp Gly Lys Leu Thr Leu Gly Thr Tyr Ile Ser Leu Ile Ala Glu
 50 55 60

Asn Ser Thr Asn Ala Pro Tyr Val Leu Ile Gly Thr Gly Thr Thr Ile
 65 70 75 80

Val Val Phe Gly Leu Phe Gly Cys Phe Ala Thr Cys Arg Gly Ser Pro
 85 90 95

Trp Met Leu Lys Leu Tyr Ala Met Phe Leu Ser Leu Val Phe Leu Ala
 100 105 110

Glu Leu Val Ala Gly Ile Ser Gly Phe Val Phe Arg His Glu Ile Lys
 115 120 125

Asp Thr Phe Leu Arg Thr Tyr Thr Asp Ala Met Gln Thr Tyr Asn Gly
 130 135 140

Asn Asp Glu Arg Ser Arg Ala Val Asp His Val Gln Arg Xaa
 145 150 155

421

<210> 471

<211> 59

<212> PRT

<213> Homo sapiens

<400> 471

Val Leu Phe Phe Tyr Glu Cys Pro Asn Leu Cys Phe Pro Leu Pro Ser
1 5 10 15

Gln Thr Val Trp Pro Val Glu Ser Val Trp Phe Val Phe Ile Ser Pro
20 25 30

Ser Phe Leu Glu Gln Gly Leu Arg Pro Cys His Ile Ser Tyr Ala Leu
35 40 45

His Pro Arg Leu Phe Trp Thr Leu Lys Val Asp
50 55

<210> 472

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472

Asp Pro Asp Glu Val Phe Pro Val Cys Leu Pro Leu Thr Gly Asp Ala
1 5 10 15

422

Gly Glu Asp Gly Gly Lys Met Leu His Leu Pro Glu Trp Pro Glu Gln
 20 25 30
 Pro Pro Gly Gly Pro Ala Ala Leu Gln Val Arg Gly Ala Glu Asp Xaa
 35 40 45
 Xaa Leu Ser Phe Xaa Asp Cys Glu Ser Leu Gln Ala Val Phe Asp Pro
 50 55 60
 Ala Ser Cys Pro His Met Leu Arg Ala Pro Ala Arg Val Leu Gly Glu
 65 70 75 80
 Ala Val Leu Pro Phe Ser Pro Ala Leu Ala Glu Val Thr Leu Gly Ile
 85 90 95
 Gly Arg Gly Ala Gly Ser Ser Trp Xaa Tyr His Glu Glu Glu Ala Asp
 100 105 110
 Ser Thr Ala Lys Ala Met Val Thr Glu Met Cys Leu Gly Glu Glu Asp
 115 120 125
 Phe Gln Gln Leu Gln Ala Gln Glu Gly Val Ala Ile Thr Phe Cys Leu
 130 135 140
 Lys Glu Phe Arg Gly Leu Leu Ser Phe Ala Glu Ser Ala Asn Leu Asn
 145 150 155 160
 Leu Ser Ile His Phe Asp Ala Pro Gly Arg Pro Ala Ile Phe Thr Ile
 165 170 175
 Lys Asp Ser Leu Leu Asp Gly His Phe Val Leu Ala Thr Leu Ser Asp
 180 185 190
 Thr Asp Ser His Ser Gln Asp Leu Gly Ser Pro Glu Arg His Gln Pro
 195 200 205
 Val Pro Gln Leu Gln Ala His Ser Thr Pro His Pro Asp Asp Phe Ala
 210 215 220
 Asn Asp Asp Ile Asp Ser Tyr Met Ile Ala Met Glu Thr Thr Ile Gly
 225 230 235 240
 Asn Glu Gly Ser Arg Val Leu Pro Ser Ile Ser Leu Ser Pro Gly Pro
 245 250 255
 Gln Pro Pro Lys Ser Pro Gly Pro His Ser Glu Glu Glu Asp Glu Ala
 260 265 270
 Glu Pro Ser Thr Val Pro Gly Thr Pro Pro Pro Lys Lys Phe Arg Ser
 275 280 285

423

Leu Phe Phe Gly Ser Ile Leu Ala Pro Val Arg Ser Pro Gln Gly Pro
 290 295 300

Ser Leu Cys Trp Arg Lys Thr Val Arg Val Lys Ala Glu Pro Arg Thr
 305 310 315 320

<210> 473

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Pro Pro Cys Ala Val Pro Gly Pro Arg Leu Ser Pro Lys Leu Arg Thr
 1 5 10 15

Pro Ser Asn Ser Arg Glu Ser Xaa Ile Cys Val Ser Gly Arg Ala Glu
 20 25 30

Ala Leu Thr Phe Arg His Gly Ala Glu Gly Ser Asp Arg Arg Arg Gln
 35 40 45

Arg Arg Glu Gly Val Leu Gly Pro Ala Leu Leu Cys Arg Pro Trp Glu
 50 55 60

Val Leu Gly Ala His Glu Val Pro Ser Arg Asn Ile Phe Ser Glu Gln

424

65					70						75				80
Thr	Ile	Pro	Pro	Ser	Ala	Lys	Tyr	Gly	Gly	Arg	His	Thr	Val	Thr	Met
				85					90					95	
Ile	Pro	Gly	Asp	Gly	Ile	Gly	Pro	Glu	Leu	Met	Leu	His	Val	Lys	Ser
			100					105					110		
Val	Phe	Arg	His	Ala	Cys	Val	Pro	Val	Asp	Phe	Glu	Glu	Val	His	Val
		115					120					125			
Ser	Ser	Asn	Ala	Asp	Glu	Glu	Asp	Ile	Arg	Asn	Ala	Ile	Met	Ala	Ile
		130					135				140				
Arg	Arg	Asn	Arg	Val	Ala	Leu	Lys	Gly	Asn	Ile	Glu	Thr	Asn	His	Asn
145					150					155					160
Leu	Pro	Pro	Ser	His	Lys	Ser	Arg	Asn	Asn	Ile	Leu	Arg	Thr	Ser	Leu
				165					170					175	
Asp	Leu	Tyr	Ala	Asn	Val	Ile	His	Cys	Lys	Ser	Leu	Pro	Gly	Val	Val
			180					185					190		
Thr	Arg	His	Lys	Asp	Ile	Asp	Ile	Leu	Ile	Val	Arg	Glu	Asn	Thr	Glu
		195					200					205			
Gly	Glu	Tyr	Ser	Ser	Leu	Glu	His	Glu	Ser	Val	Ala	Gly	Val	Val	Glu
	210					215					220				
Ser	Leu	Lys	Ile	Ile	Thr	Lys	Ala	Lys	Ser	Leu	Arg	Ile	Ala	Glu	Tyr
225					230					235					240
Ala	Phe	Lys	Leu	Ala	Gln	Glu	Ser	Gly	Arg	Lys	Lys	Val	Thr	Ala	Val
				245					250					255	
His	Lys	Ala	Asn	Ile	Met	Lys	Leu	Gly	Asp	Gly	Leu	Phe	Leu	Gln	Cys
			260					265					270		
Cys	Arg	Glu	Val	Ala	Ala	Arg	Tyr	Pro	Gln	Xaa	Thr	Phe	Glu	Asn	Met
		275					280					285			
Ile	Val	Asp	Asn	Thr	Thr	Met	Gln	Leu	Val	Xaa	Arg	Pro	Gln	Gln	Phe
	290					295					300				
Asp	Val	Met	Val	Met	Pro	Asn	Leu	Tyr	Gly	Asn	Ile	Val	Lys	Gln	Cys
305					310					315					320
Leu	Arg	Gly	Xaa	Gly	Arg	Gly	Pro	Lys	Leu	Val					
				325					330						

425

<210> 474

<211> 30

<212> PRT

<213> Homo sapiens

<400> 474

Thr	Pro	Ile	Ser	Thr	Lys	Asn	Thr	Lys	Ile	Ser	Gln	Ala	Arg	Trp	Arg
1				5				10					15		

Ala	His	Val	Val	Pro	Ala	Thr	Arg	Glu	Ala	Asp	Ala	Glu	Glu
		20						25				30	

<210> 475

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Thr	Gln	Phe	Ser	Leu	Ser	Pro	Val	Glu	Thr	Ile	Tyr	Thr	Ile	Leu	Cys
1				5				10					15		

Ile	Asn	Val	Tyr	Thr	Leu	Pro	Ile	Cys	Ile	His	Ile	Tyr	Ile	Val	Tyr
		20						25					30		

Ile	Leu	Tyr	Met	Tyr	Arg	Cys	Val	Tyr	Val	His	Ile	Tyr	Thr	His	Ala
		35					40					45			

His	Asn	Lys	Ile	Arg	Cys	Ser	Leu	Gln	Ile	Gln	Met	Leu	Ile	Thr	Lys
	50					55					60				

Pro	Asp	Ala	Thr	Gln	Thr	Ala	Ala	Glu	Glu	Thr	Arg	Leu	Asp	Ser	Cys
	65				70					75				80	

Asn	Arg	Ser	Gln	Lys	Ile	Lys	Thr	Ala	Thr	Cys	Ser	Asp	Phe	Gly	His
				85				90						95	

Phe	Cys	Met	Phe	Ile	Lys	Asn	Gly	Phe	Val	Thr	Arg	Lys	Xaa	Arg	Thr
		100						105					110		

Ser	Val	Ser	Glu	Lys	Gly	Arg	Trp	Gly	Glu	Pro	Ser
	115						120				

426

<210> 476

<211> 64

<212> PRT

<213> Homo sapiens

<400> 476

```

Asn Gly Tyr Leu Val Phe Pro Arg Lys Asn Ser Phe Leu Leu Ile Phe
 1             5             10             15

Gly Leu Phe Val Tyr Leu Glu Thr Asn Leu Asp Ser Leu Pro Leu Val
          20             25             30

Asp Thr His Ser Lys Arg Thr Leu Leu Ile Lys Thr Val Glu Thr Arg
          35             40             45

Asp Gly Gln Val Ile Asn Glu Thr Ser Gln His His Asp Asp Leu Glu
 50             55             60

```

<210> 477

<211> 107

<212> PRT

<213> Homo sapiens

<400> 477

```

Val Leu Thr Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro
 1             5             10             15

Asp Met Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro
          20             25             30

Gln Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly
          35             40             45

Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu Arg
          50             55             60

Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val Ser His
          65             70             75             80

Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile Ala Asp Arg
          85             90             95

Leu Ala Pro Leu Pro Cys Pro Lys Thr Gly Gly
          100             105

```

427

<210> 478

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (281)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 478

Arg	Glu	Leu	Gly	Gly	Thr	Leu	Leu	Ser	Ala	Ile	Glu	Val	Glu	Gly	Ala
1				5					10					15	

Lys	Met	Gln	Ser	Asn	Lys	Thr	Phe	Asn	Leu	Glu	Lys	Gln	Asn	His	Thr
		20						25					30		

Pro	Arg	Lys	His	His	Gln	His	His	His	Gln	Gln	Gln	His	His	Gln	Gln
		35						40					45		

Gln	Gln	Gln	Gln	Pro	Pro	Pro	Pro	Pro	Ile	Pro	Ala	Asn	Gly	Gln	Gln
	50					55					60				

Ala	Ser	Ser	Gln	Asn	Glu	Gly	Leu	Thr	Ile	Asp	Leu	Lys	Asn	Phe	Arg
65					70					75					80

Lys	Pro	Gly	Glu	Lys	Thr	Phe	Thr	Gln	Arg	Ser	Arg	Leu	Phe	Val	Gly
				85					90					95	

Asn	Leu	Pro	Pro	Asp	Ile	Thr	Glu	Glu	Glu	Met	Arg	Lys	Leu	Phe	Glu
			100					105					110		

Lys	Tyr	Gly	Lys	Ala	Gly	Glu	Val	Phe	Ile	His	Lys	Asp	Lys	Gly	Phe
		115					120					125			

Gly	Phe	Ile	Arg	Leu	Glu	Thr	Arg	Thr	Leu	Ala	Glu	Ile	Ala	Lys	Val
	130					135					140				

Glu	Leu	Asp	Asn	Met	Pro	Leu	Arg	Gly	Lys	Gln	Leu	Arg	Val	Arg	Phe
145					150					155					160

Ala	Cys	His	Ser	Ala	Ser	Leu	Thr	Val	Arg	Asn	Leu	Pro	Gln	Tyr	Val
				165					170					175	

Ser	Asn	Glu	Leu	Leu	Glu	Glu	Ala	Phe	Ser	Val	Phe	Gly	Gln	Val	Glu
		180						185					190		

Arg	Ala	Val	Val	Ile	Val	Asp	Asp	Arg	Gly	Arg	Pro	Ser	Gly	Lys	Gly
		195					200					205			

428

```

Ile Val Glu Phe Ser Gly Lys Pro Ala Ala Arg Lys Ala Leu Asp Arg
  210                      215                      220

Cys Ser Glu Gly Ser Phe Leu Leu Thr Thr Phe Pro Arg Pro Val Thr
  225                      230                      235                      240

Val Glu Pro Met Asp Gln Leu Asp Asp Glu Glu Gly Leu Pro Glu Lys
                      245                      250                      255

Leu Val Ile Lys Asn Gln Gln Phe His Lys Glu Arg Glu Gln Pro Pro
      260                      265                      270

Arg Phe Ala Gln Pro Gly Ser Phe Xaa Val
      275                      280

```

<210> 479

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (285)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 479

```

Ala Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Val Cys
  1                      5                      10                      15

```

```

Gly Pro Leu Ser Ala Pro Arg Gly Ser Arg Arg Pro Thr Val Pro Gly
      20                      25                      30

```

```

Thr Pro Ala Cys Leu Ala Arg Pro Ala Ala Gln Gly Phe Ser Ala Ala

```


429

35	40	45																	
Leu	Pro	Val	Arg	Trp	Thr	Gly	Arg	Arg	Ala	Gly	Pro	Ser	Arg	Pro	Val				
50						55					60								
Pro	Ile	Gly	Thr	Pro	Ser	Arg	Ala	Ala	Asp	Pro	Ser	Gln	Gly	Glu	Met				
65					70					75					80				
Ser	Ala	Asp	Ala	Ala	Ala	Gly	Ala	Pro	Leu	Pro	Arg	Leu	Cys	Cys	Leu				
				85					90					95					
Glu	Lys	Gly	Pro	Asn	Gly	Tyr	Gly	Phe	His	Leu	His	Gly	Glu	Lys	Gly				
			100					105					110						
Lys	Leu	Gly	Gln	Tyr	Ile	Arg	Leu	Val	Glu	Pro	Gly	Ser	Pro	Ala	Glu				
		115					120					125							
Lys	Ala	Gly	Leu	Leu	Ala	Gly	Asp	Arg	Leu	Val	Glu	Val	Asn	Gly	Glu				
	130					135					140								
Asn	Val	Glu	Lys	Glu	Thr	His	Gln	Gln	Val	Val	Ser	Arg	Ile	Arg	Ala				
145					150					155					160				
Ala	Leu	Asn	Ala	Val	Arg	Leu	Leu	Val	Val	Asp	Pro	Glu	Thr	Asp	Glu				
				165					170					175					
Gln	Leu	Gln	Lys	Leu	Gly	Val	Gln	Val	Arg	Glu	Glu	Leu	Leu	Arg	Ala				
			180					185					190						
Gln	Glu	Ala	Pro	Gly	Gln	Ala	Glu	Pro	Pro	Ala	Ala	Ala	Xaa	Val	Gln				
		195					200					205							
Gly	Ala	Gly	Asn	Glu	Asn	Xaa	Pro	Arg	Xaa	Ala	Asp	Lys	Ser	His	Pro				
	210					215					220								
Glu	Gln	Arg	Glu	Leu	Arg	Pro	Arg	Leu	Cys	Thr	Met	Lys	Lys	Gly	Pro				
225					230					235					240				
Ser	Gly	Tyr	Gly	Phe	Asn	Leu	His	Ser	Asp	Lys	Ser	Lys	Pro	Gly	Gln				
				245					250					255					
Phe	Ile	Arg	Ser	Val	Asp	Pro	Asp	Ser	Pro	Ala	Glu	Ala	Ser	Gly	Leu				
			260					265					270						
Arg	Ala	Gln	Asp	Arg	Ile	Val	Glu	Val	Met	Leu	Leu	Xaa	Ser	Leu	Pro				
	275						280					285							
Ile																			

430

<210> 480

<211> 44

<212> PRT

<213> Homo sapiens

<400> 480

Gly	Ser	Thr	His	Ala	Ser	Gly	Arg	Asn	Glu	Gly	Pro	Pro	Ala	Lys	Thr
1					5				10					15	

Lys	Ser	Trp	Val	Gly	Pro	Thr	Leu	His	Phe	His	Arg	Lys	Ser	Glu	His
			20					25					30		

Leu	Val	Gly	Leu	Lys	Val	Leu	Cys	Cys	Phe	Arg	Leu
		35					40				

<210> 481

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Ser	Ile	Xaa	His	Xaa	Arg	Lys	Xaa	Xaa	Xaa	Thr	Val	Arg	Ser	Asp	Ser
1					5				10					15	

431

Arg Val Asp Pro Arg Ser Asp Asp Phe Thr Pro Leu Glu Ile Leu Trp
 20 25 30
 Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe
 35 40 45
 Met Val Ser Lys Thr Gly Glu Ala Glu Thr Ile Thr Ser His Tyr Leu
 50 55 60
 Phe Ala Leu Gly Val Tyr Arg Thr Leu Tyr Leu Phe Asn Trp Ile Trp
 65 70 75 80
 Arg Tyr His Phe Glu Gly Phe Phe Asp Leu Ile Ala Ile Val Ala Gly
 85 90 95
 Leu Val Gln Thr Val Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Thr
 100 105 110
 Lys Val Leu Lys Gly Lys Lys Leu Ser Leu Pro Ala
 115 120

<210> 482

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Cys Ser Ser Arg Gly Ala His His Ser His Cys Asp Arg Leu Pro His

[illegible]

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<210> 483
<211> 221
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 483
Lys Lys Pro Pro Ile Thr His Pro Ser Thr Pro Ala Glu Glu Thr Tyr ,
  1             5             10             15
Asn Leu Gly Arg Gln Val Leu Pro Leu Ser Ala Val Thr Tyr Phe Gln
      20             25             30
Lys Ser Gly Pro Gly Leu Leu Pro Ala Pro Ala Thr Gln Ser Ala Ser
```

433

35					40					45					
Val	Ala	Gly	Thr	Leu	Gln	Asn	Ser	Leu	Cys	Ser	Gln	Val	Thr	Lys	Lys
50						55					60				
Lys	Arg	Ala	Asn	Met	Leu	Val	Leu	Leu	Ala	Gly	Ile	Phe	Val	Val	His
65					70					75					80
Ile	Ala	Thr	Val	Ile	Met	Leu	Phe	Val	Ser	Thr	Ile	Ala	Asn	Val	Trp
				85					90					95	
Leu	Val	Ser	Asn	Thr	Val	Asp	Ala	Ser	Val	Gly	Leu	Trp	Lys	Asn	Cys
			100					105					110		
Thr	Asn	Ile	Ser	Cys	Ser	Asp	Ser	Leu	Ser	Tyr	Ala	Ser	Glu	Asp	Ala
	115						120					125			
Leu	Lys	Thr	Val	Gln	Ala	Phe	Met	Ile	Leu	Ser	Ile	Ile	Phe	Cys	Val
130						135					140				
Ile	Ala	Leu	Leu	Val	Phe	Val	Phe	Gln	Leu	Phe	Thr	Met	Glu	Lys	Gly
145					150					155					160
Asn	Arg	Phe	Phe	Leu	Ser	Gly	Xaa	Thr	Thr	Leu	Val	Cys	Xaa	Leu	Cys
				165					170					175	
Ile	Leu	Val	Gly	Cys	Pro	Ser	Thr	Leu	Val	Ile	Met	Arg	Ile	Val	Met
			180					185					190		
Glu	Arg	Ile	Cys	Thr	Thr	Ala	Ile	Pro	Thr	Ser	Trp	Ala	Gly	Ser	Ala
	195						200					205			
Ser	Ala	Ser	Ala	Ser	Ser	Ser	Ala	Phe	Ser	Ile	Trp	Ser			
210						215					220				

<210> 484

<211> 382

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

434

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

Thr	Lys	Leu	Trp	Thr	Leu	Val	Ser	Asn	Pro	Asp	Thr	Asp	Ala	Leu	Ile
1				5					10					15	

Cys	Trp	Ser	Pro	Ser	Xaa	Asn	Ser	Phe	His	Val	Phe	Asp	Gln	Gly	Gln
			20					25					30		

Phe	Ala	Lys	Glu	Val	Leu	Pro	Lys	Tyr	Phe	Lys	His	Asn	Asn	Met	Ala
		35					40					45			

Ser	Phe	Val	Arg	Gln	Xaa	Asn	Met	Tyr	Gly	Phe	Arg	Lys	Val	Val	His
	50					55					60				

Ile	Glu	Gln	Gly	Xaa	Leu	Val	Lys	Pro	Glu	Arg	Asp	Asp	Thr	Glu	Phe
65					70					75				80	

Gln	His	Pro	Cys	Phe	Leu	Arg	Gly	Gln	Glu	Gln	Leu	Leu	Glu	Asn	Ile
				85					90					95	

Lys	Arg	Lys	Val	Thr	Ser	Val	Ser	Thr	Leu	Lys	Ser	Glu	Asp	Ile	Lys
			100					105					110		

Ile	Arg	Gln	Asp	Ser	Val	Thr	Lys	Leu	Leu	Thr	Asp	Val	Gln	Leu	Met
		115					120					125			

435

Lys Gly Lys Gln Glu Cys Met Asp Ser Lys Leu Leu Ala Met Lys His
 130 135 140
 Glu Asn Glu Ala Leu Trp Arg Glu Val Ala Ser Leu Arg Gln Lys His
 145 150 155 160
 Ala Gln Gln Gln Lys Val Val Asn Lys Leu Ile Gln Phe Leu Ile Ser
 165 170 175
 Leu Val Gln Ser Asn Arg Ile Leu Gly Val Lys Arg Lys Ile Pro Leu
 180 185 190
 Met Leu Asn Asp Ser Gly Ser Ala His Ser Met Pro Lys Tyr Ser Arg
 195 200 205
 Gln Phe Ser Leu Glu His Val His Gly Ser Gly Pro Tyr Ser Ala Pro
 210 215 220
 Ser Pro Ala Tyr Ser Ser Ser Ser Leu Tyr Ala Pro Asp Ala Val Ala
 225 230 235 240
 Ser Ser Gly Pro Ile Ile Ser Asp Ile Thr Glu Leu Ala Pro Ala Ser
 245 250 255
 Pro Met Ala Ser Pro Gly Gly Ser Ile Asp Glu Arg Pro Leu Ser Ser
 260 265 270
 Ser Pro Leu Val Arg Val Lys Glu Glu Pro Pro Ser Pro Pro Xaa Ser
 275 280 285
 Pro Arg Val Glu Glu Ala Ser Pro Gly Xaa Pro Ser Ser Val Asp Thr
 290 295 300
 Leu Leu Ser Pro Thr Ala Leu Ile Asp Ser Ile Leu Arg Glu Ser Glu
 305 310 315 320
 Pro Ala Pro Xaa Ser Val Thr Ala Leu Thr Asp Ala Arg Gly His Thr
 325 330 335
 Asp Thr Glu Gly Arg Pro Pro Ser Pro Pro Pro Thr Ser Thr Pro Glu
 340 345 350
 Lys Cys Leu Ser Val Xaa Ala Trp Thr Arg Met Ser Ser Val Thr Thr
 355 360 365
 Trp Met Leu Trp Thr Pro Thr Trp Ile Thr Cys Arg Pro Cys
 370 375 380

<210> 485

436

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (399)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Pro	Ser	Val	Ala	Asn	Val	Gly	Ser	His	Cys	Asp	Leu	Ser	Leu	Lys	Ile
1				5					10					15	

Pro	Glu	Ile	Ser	Ile	Gln	Asp	Met	Thr	Ala	Gln	Val	Thr	Ser	Pro	Ser
			20					25					30		

Gly	Lys	Thr	His	Glu	Ala	Glu	Ile	Val	Glu	Gly	Glu	Asn	His	Thr	Tyr
		35					40					45			

Cys	Ile	Arg	Phe	Val	Pro	Ala	Glu	Met	Gly	Thr	His	Thr	Val	Ser	Val
	50					55					60				

Lys	Tyr	Lys	Gly	Gln	His	Val	Pro	Gly	Ser	Pro	Phe	Gln	Phe	Thr	Val
65					70					75					80

Gly	Pro	Leu	Gly	Glu	Gly	Gly	Ala	His	Lys	Val	Arg	Ala	Gly	Gly	Pro
			85						90					95	

Gly	Leu	Glu	Arg	Ala	Glu	Ala	Gly	Val	Pro	Ala	Glu	Phe	Ser	Ile	Trp
			100					105						110	

Thr	Arg	Glu	Ala	Gly	Ala	Gly	Gly	Leu	Ala	Ile	Ala	Val	Glu	Gly	Pro
		115					120					125			

Ser	Lys	Ala	Glu	Ile	Ser	Phe	Glu	Asp	Arg	Lys	Asp	Gly	Ser	Cys	Gly
	130					135					140				

Val	Ala	Tyr	Val	Val	Gln	Glu	Pro	Gly	Asp	Tyr	Glu	Val	Ser	Val	Lys
145					150					155					160

Phe	Asn	Glu	Glu	His	Ile	Pro	Asp	Ser	Pro	Phe	Val	Val	Pro	Val	Ala
			165						170					175	

Ser	Pro	Ser	Gly	Asp	Ala	Arg	Arg	Leu	Thr	Val	Ser	Ser	Leu	Gln	Glu
			180					185					190		

Ser	Gly	Leu	Lys	Val	Asn	Gln	Pro	Ala	Ser	Phe	Ala	Val	Ser	Leu	Asn
	195						200					205			

Gly	Ala	Lys	Gly	Ala	Ile	Asp	Ala	Lys	Val	His	Ser	Pro	Ser	Gly	Ala
	210					215					220				

437

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Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln Asp Lys Tyr Ala Val
225                230                235                240

Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu Ile Asp Val Lys Phe
                245                250                255

Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys Ile Arg Val Gly Glu
                260                265                270

Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser Ala Tyr Gly Ala Gly
                275                280                285

Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn Thr
290                295                300

Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro Ser
305                310                315                320

Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val Thr
                325                330                335

Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr Gly
                340                345                350

Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly
                355                360                365

Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val Phe
                370                375                380

Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro Gln His Gly Xaa Pro
385                390                395                400

Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Trp Gly
                405                410                415

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<210> 486

<211> 46

<212> PRT

<213> Homo sapiens

<400> 486

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Phe Val Thr Ser Gly Lys Ile Ser Leu Tyr Val Tyr Ile Leu Thr Ile
  1              5              10              15

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438

Arg Leu Asp Thr Asn Lys Ala Thr Leu Leu Thr Ala Ser Gly Glu Leu
 20 25 30

Ile Leu Phe Leu Ile Phe Phe Asn Lys Asp Ile Leu Arg Tyr
 35 40 45

<210> 487

<211> 162

<212> PRT

<213> Homo sapiens

<400> 487

Leu Gly Val Ala Leu Gly Ala Val Pro Lys Leu His Leu Gly Val Leu
 1 5 10 15

Val Ser Thr Gly Leu Arg Thr Ala Val Gly Ser Pro Arg Leu Pro Pro
 20 25 30

Thr Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser Gly Thr Gly Ile
 35 40 45

Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met Lys Ser Ile Ile
 50 55 60

Pro Val Val Met Ala Gly Ile Ile Ala Ile Tyr Gly Leu Val Val Ala
 65 70 75 80

Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser Leu Tyr Lys Ser
 85 90 95

Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu Ser Gly Leu Ala
 100 105 110

Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly Val Arg Gly Thr
 115 120 125

Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu Ile Leu Ile Phe
 130 135 140

Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala Leu Ile Leu Ser
 145 150 155 160

Thr Lys

<210> 488

<211> 114

439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

Gln	Ala	Leu	Arg	Pro	Gly	Ser	Phe	Arg	Gly	Thr	Gly	Arg	Lys	Arg	Glu
1				5					10					15	

Arg	Glu	Arg	Glu	Arg	Met	Ser	Leu	Ser	Asp	Trp	His	Leu	Ala	Val	Lys
			20						25					30	

Leu	Ala	Asp	Gln	Pro	Leu	Ala	Pro	Lys	Ser	Ile	Leu	Gln	Leu	Pro	Glu
		35					40					45			

Ser	Glu	Leu	Gly	Glu	Tyr	Ser	Leu	Gly	Gly	Tyr	Ser	Ile	Ser	Phe	Leu
	50						55					60			

Lys	Gln	Leu	Ile	Ala	Gly	Lys	Leu	Gln	Glu	Ser	Val	Pro	Asp	Pro	Glu
65					70					75					80

Leu	Ile	Asp	Leu	Ile	Tyr	Cys	Gly	Arg	Lys	Leu	Lys	Asp	Asp	Xaa	Thr
				85						90					95

Leu	Thr	Ser	Thr	Val	Phe	Asn	Leu	Ala	Pro	His	Pro	Cys	Ser	Xaa	Glu
				100					105					110	

Xaa Leu

<210> 489

<211> 149

<212> PRT

<213> Homo sapiens

<220>

440

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

Ser	Thr	His	Ala	Ser	Glu	Asp	Val	Leu	Ala	Ala	Pro	Ser	Gly	Cys	Arg
1				5				10						15	

Ala	Ser	Arg	Pro	Pro	Thr	Ser	Gly	Arg	Glu	Gln	Phe	Trp	Ala	Arg	Gly
			20					25					30		

Leu	Ala	Ala	Ala	Asp	Met	Thr	Lys	Gly	Leu	Val	Leu	Gly	Ile	Tyr	Ser
			35				40					45			

Lys	Asp	Lys	Glu	Asp	Asp	Val	Pro	Gln	Phe	Thr	Ser	Ala	Gly	Glu	Asn
	50					55					60				

Phe	Asp	Lys	Leu	Val	Ser	Gly	Lys	Leu	Arg	Glu	Ile	Leu	Asn	Ile	Ser
65					70					75					80

Gly	Pro	Pro	Leu	Lys	Ala	Gly	Lys	Thr	Arg	Thr	Phe	Tyr	Gly	Leu	His
				85					90					95	

Glu	Asp	Phe	Pro	Ser	Val	Val	Val	Val	Gly	Leu	Gly	Arg	Lys	Ala	Ala
			100						105					110	

Gly	Val	Asp	Asp	Gln	Glu	Asn	Trp	Xaa	Glu	Gly	Lys	Glu	Asn	Ile	Arg
		115					120						125		

Val	Ala	Met	Gln	Arg	Gly	Ala	Gly	Arg	Phe	Gln	Asp	Leu	Xaa	Ile	Ser
		130				135					140				

Ser	Val	Glu	Gly	Gly
145				

<210> 490

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

441

<400> 490

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Arg Arg Arg Ser Arg Gly Leu Ile Pro Gly Arg Ala Pro Gly Arg Arg
 1             5             10             15

Arg Pro Arg Ala His Glu Val Ala Arg Ala Pro Pro Pro Ile Ala Met
      20             25             30

Asp Arg Met Lys Lys Ile Lys Arg Gln Leu Ser Met Thr Leu Arg Gly
      35             40             45

Gly Arg Gly Ile Asp Lys Thr Asn Gly Ala Pro Glu Gln Ile Gly Leu
      50             55             60

Asp Glu Ser Gly Gly Gly Gly Gly Ser Asp Pro Gly Glu Ala Pro Thr
      65             70             75             80

Arg Ala Ala Pro Gly Glu Leu Arg Ser Ala Arg Gly Pro Leu Ser Ser
      85             90             95

Ala Pro Glu Ile Val His Glu Asp Leu Lys Met Gly Ser Asp Gly Glu
      100            105            110

Ser Asp Gln Ala Ser Ala Thr Ser Ser Asp Glu Val Gln Ser Pro Val
      115            120            125

Arg Val Arg Met Arg Asn His Pro Pro Arg Lys Ile Ser Thr Glu Asp
      130            135            140

Ile Asn Lys Arg Leu Ser Leu Pro Ala Asp Ile Arg Leu Pro Glu Gly
      145            150            155            160

Tyr Leu Glu Lys Leu Thr Leu Asn Ser Pro Ile Phe Asp Lys Pro Leu
      165            170            175

Ser Arg Arg Leu Arg Arg Val Ser Leu Ser Glu Ile Gly Phe Gly Lys
      180            185            190

Leu Glu Thr Tyr Ile Lys Leu Asp Lys Leu Gly Glu Gly Thr Tyr Ala
      195            200            205

Thr Val Tyr Lys Gly Lys Ser Lys Leu Thr Asp Asn Leu Val Ala Leu
      210            215            220

Lys Glu Ile Arg Leu Glu His Glu Glu Gly Ala Pro Cys Thr Ala Ile
      225            230            235            240

Arg Glu Val Ser Leu Leu Lys Asp Leu Lys His Ala Asn Ile Val Thr
      245            250            255

Leu His Asp Ile Ile His Thr Glu Lys Ser Leu Thr Leu Val Phe Glu

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442

260					265					270					
Tyr	Leu	Asp	Lys	Asp	Leu	Lys	Gln	Tyr	Leu	Asp	Asp	Cys	Gly	Asn	Ile
	275						280					285			
Ile	Asn	Met	His	Asn	Val	Lys	Leu	Phe	Leu	Phe	Gln	Leu	Leu	Arg	Gly
	290					295					300				
Leu	Ala	Tyr	Cys	His	Arg	Xaa	Lys	Val	Leu	His	Arg	Asp	Leu	Lys	Pro
305					310					315					320
Gln	Asn	Leu	Leu	Ile	Asn	Glu	Arg	Gly	Glu	Leu	Lys	Leu	Ala	Asp	Phe
				325					330					335	
Gly	Leu	Ala	Arg	Ala	Lys	Ser	Ile	Pro	Thr	Lys	Thr	Tyr	Ser	Asn	Glu
		340						345					350		
Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro	Asp	Ile	Leu	Leu	Gly	Ser	Thr
	355						360					365			
Asp	Tyr	Ser	Thr	Gln	Ile	Asp	Met	Trp	Gly	Val	Gly	Cys	Ile	Phe	Tyr
	370					375					380				
Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe	Pro	Gly	Ser	Thr	Val	Glu	Glu
385					390					395					400
Gln	Leu	His	Phe	Ile	Phe	Arg	Ile	Leu	Gly	Thr	Pro	Thr	Glu	Glu	Thr
				405					410					415	
Trp	Pro	Gly	Ile	Leu	Ser	Asn	Glu	Glu	Phe	Lys	Thr	Tyr	Asn	Tyr	Pro
		420						425					430		
Lys	Tyr	Arg	Ala	Glu	Ala	Leu	Leu	Ser	His	Ala	Pro	Arg	Leu	Asp	Ser
	435					440						445			
Asp	Gly	Ala	Asp	Leu	Leu	Thr	Lys	Leu	Leu	Gln	Phe	Glu	Gly	Arg	Asn
	450					455					460				
Arg	Ile	Ser	Ala	Glu	Asp	Ala	Met	Lys	His	Pro	Phe	Phe	Leu	Ser	Leu
465					470					475					480
Gly	Glu	Arg	Ile	His	Lys	Leu	Pro	Asp	Thr	Thr	Ser	Ile	Phe	Ala	Leu
				485					490					495	
Lys	Glu	Ile	Gln	Leu	Gln	Lys	Glu	Ala	Ser	Leu	Arg	Ser	Ser	Ser	Met
		500						505					510		
Pro	Asp	Ser	Gly	Arg	Pro	Ala	Phe	Arg	Val	Val	Asp	Thr	Glu	Phe	
	515						520					525			

443

<210> 491
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 491
 Cys Thr Arg Ala His Pro Lys Asn Leu Val Glu Lys Gly Ile Leu Thr
 1 5 10 15
 Thr Glu Lys Gln Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Val
 20 25 30
 Thr Asn Thr Thr Glu Lys Gln Arg Leu Val Lys Lys Leu Gln Asp Ser
 35 40 45
 Val Leu Glu Arg Trp Val Asn Asp Pro Gln Arg Met Asp Lys Arg Thr
 50 55 60
 Leu Ala Leu Leu Val Leu Ala His Ser Ser Asp Val Leu Glu Asn Val
 65 70 75 80
 Phe Ser Ser Leu Thr Asp Asp Lys Tyr Asp Val Ala Met Asn Arg Ala
 85 90 95
 Lys Asp Leu Val Glu Leu Asp Pro Glu Val Glu Gly Thr Lys Pro Ser
 100 105 110
 Ala Thr Glu Met Ile Trp Ala Val Leu Ala Ala Phe Xaa
 115 120 125

<210> 492
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)

444

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Val	Ser	Xaa	Ser	Ile	Leu	Ala	Leu	Leu	Phe	Asn	Thr	Asp	Ala	Leu	Phe
1				5					10					15	

Ser	Arg	Val	Tyr	Glu	Ser	Leu	Ser	Asp	Asn	His	Gly	Leu	Gln	Glu	Gln
			20					25					30		

Thr	Val	Glu	Lys	Leu	Phe	Phe	Gln	Trp	Lys	Ser	Trp	Val	Gln	Glu	Met
		35					40					45			

Xaa	Gly	Xaa	Leu	Lys
				50

<210> 493

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

445

<400> 493

Pro Gly Phe Phe Phe Gln Met Leu Val His Thr Tyr Ser Ser Met Asp
 1 5 10 15
 Arg His Asp Gly Val Pro Ser His Ser Ser Arg Leu Ser Gln Leu Gly
 20 25 30
 Ser Val Ser Gln Gly Pro Tyr Ser Ser Ala Pro Pro Leu Ser His Thr
 35 40 45
 Pro Ser Ser Asp Phe Gln Pro Pro Tyr Phe Pro Xaa Pro Tyr Gln Pro
 50 55 60
 Leu Pro Xaa Xaa Gln Ser Gln Asp Pro Tyr Ser His Val Xaa Xaa Pro
 65 70 75 80
 Tyr Pro

<210> 494

<211> 290

<212> PRT

<213> Homo sapiens

<400> 494

Tyr Lys Asp Trp Leu Thr Lys Met Ser Gly Lys His Asp Val Gly Ala
 1 5 10 15
 Tyr Met Leu Met Tyr Lys Gly Ala Asn Arg Thr Glu Thr Val Thr Ser
 20 25 30
 Phe Arg Lys Arg Glu Ser Lys Val Pro Ala Asp Leu Leu Lys Arg Ala
 35 40 45
 Phe Val Arg Met Ser Thr Ser Pro Glu Ala Phe Leu Ala Leu Arg Ser
 50 55 60
 His Phe Ala Ser Ser His Ala Leu Ile Cys Ile Ser His Trp Ile Leu
 65 70 75 80
 Gly Ile Gly Asp Arg His Leu Asn Asn Phe Met Val Ala Met Glu Thr
 85 90 95
 Gly Gly Val Ile Gly Ile Asp Phe Gly His Ala Phe Gly Ser Ala Thr
 100 105 110
 Gln Phe Leu Pro Val Pro Glu Leu Met Pro Phe Arg Leu Thr Arg Gln
 115 120 125

446

Phe Ile Asn Leu Met Leu Pro Met Lys Glu Thr Gly Leu Met Tyr Ser
 130 135 140
 Ile Met Val His Ala Leu Arg Ala Phe Arg Ser Asp Pro Gly Leu Leu
 145 150 155 160
 Thr Asn Thr Met Asp Val Phe Val Lys Glu Pro Ser Phe Asp Trp Lys
 165 170 175
 Asn Phe Glu Gln Lys Met Leu Lys Lys Gly Gly Ser Trp Ile Gln Glu
 180 185 190
 Ile Asn Val Ala Glu Lys Asn Trp Tyr Pro Arg Gln Lys Ile Cys Tyr
 195 200 205
 Ala Lys Arg Lys Leu Ala Gly Ala Asn Pro Ala Val Ile Thr Cys Asp
 210 215 220
 Glu Leu Leu Leu Gly His Glu Lys Ala Pro Ala Phe Arg Asp Tyr Val
 225 230 235 240
 Ala Val Ala Arg Gly Ser Lys Asp His Asn Ile Arg Ala Gln Glu Pro
 245 250 255
 Glu Ser Gly Leu Ser Glu Glu Thr Gln Val Lys Cys Leu Met Asp Gln
 260 265 270
 Ala Thr Asp Pro Asn Ile Leu Gly Arg Thr Trp Glu Gly Trp Glu Pro
 275 280 285
 Trp Met
 290

<210> 495

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Cys Gln Ser His Pro Leu Pro Gly Gly Pro Ala Cys Pro Cys Leu Ala
 1 5 10 15

Cys His Ile Thr Leu Leu Phe Gly Arg Pro Trp Leu Ile Lys Glu Val

447

	20		25		30
Leu Val Val Ser Gln Ala Lys Trp Asn Leu Glu Thr Val Lys Lys Val					
	35		40		45
Gln Ile Thr Leu Asn Cys Ile Gln Glu Val His Phe Phe Pro Ile Val					
	50		55		60
Arg Gly Ser Trp Ser Leu Arg Asp Ala Arg Leu Glu Ser Asp Tyr Ile					
	65		70		75
					80
Ile Ile Gln Asn Gly Asn Ser Gln Gly Asn Ala Phe Phe His Phe Ile					
		85		90	95
Arg Phe Phe Tyr Pro His Cys Thr Pro Ser Pro Ser Pro Leu Pro Ile					
	100		105		110
Trp Met Ala Ser Gln Lys Leu Gly Pro Ser Pro Pro Cys Leu Gly Gly					
	115		120		125
Gly Gln Ser Pro Leu Thr Ala Glu Ala Ala Leu Leu Ser Ser Ala Val					
	130		135		140
Leu Pro Leu Xaa Lys Cys Leu Gln Arg Val Met Ser					
	145		150		155

<210> 496

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 496

Glu Glu Leu Leu Arg Ala Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro
1 5 10 15

Ala Ala Ala Glu Val Gln Gly Ala Gly Asn Glu Asn Glu Pro Arg Glu
20 25 30

Ala Asp Lys Ser His Pro Glu Gln Arg Xaa Leu Arg Pro Arg Leu Cys
35 40 45

Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn Leu His Ser Asp
50 55 60

448

Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp Pro Asp Ser Pro
 65 70 75 80
 Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile Val Glu Val Asn
 85 90 95
 Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val Val Ser Ala Ile
 100 105 110
 Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val Asp Arg Glu Thr
 115 120 125
 Asp Glu Phe Phe Lys Lys Cys Arg Val Ile Pro Ser Gln Glu His Leu
 130 135 140
 Asn Gly Pro Leu Pro Val Pro Phe Thr Asn Gly Glu Ile Gln Lys Glu
 145 150 155 160
 Asn Ser Arg Glu Ala Leu Ala Glu Ala Ala Leu Glu Ser Pro Arg Pro
 165 170 175
 Ala Leu Val Arg Ser Ala Ser Ser Asp Thr Ser Glu Glu Leu Asn Ser
 180 185 190
 Gln Asp Ser Pro Pro Lys Gln Asp Ser Thr Ala Pro Ser Ser Thr Ser
 195 200 205
 Ser Ser Asp Pro Ile Leu Asp Phe Asn Ile Ser Leu Ala Met Ala Lys
 210 215 220
 Glu Arg Ala His Gln Lys Arg Ser Ser Lys Arg Ala Pro Gln Met Asp
 225 230 235 240
 Trp Ser Lys Lys Asn Glu Leu Phe Ser Asn Leu
 245 250

<210> 497

<211> 48

<212> PRT

<213> Homo sapiens

<400> 497

Asn Gly Ala Glu Ala Val Ser Thr Glu Ala Lys Met Thr Ala Phe Pro
 1 5 10 15

Asp Trp Pro Trp Leu Phe His Thr Leu Cys Asp Pro Cys Pro Met Thr
 20 25 30

Leu Trp Leu Thr Leu Pro Glu Ala Met Thr Thr Ala Ala Phe Cys His

449

35

40

45

<210> 498

<211> 373

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Gly	Thr	Arg	Gly	Ser	Arg	Ala	Ser	Gly	Val	Cys	Ala	Arg	Gly	Cys	Leu
1				5					10					15	

Asp	Ser	Ala	Gly	Pro	Trp	Thr	Met	Ser	Arg	Ala	Leu	Arg	Pro	Pro	Leu
			20					25					30		

Pro	Pro	Leu	Cys	Phe	Phe	Leu	Leu	Leu	Leu	Ala	Ala	Ala	Gly	Ala	Arg
		35					40						45		

Ala	Gly	Gly	Tyr	Glu	Thr	Cys	Pro	Thr	Val	Gln	Pro	Asn	Met	Leu	Asn
	50					55					60				

Val	His	Leu	Leu	Pro	His	Thr	His	Asp	Asp	Val	Gly	Trp	Leu	Lys	Thr
65					70					75					80

Val	Asp	Gln	Tyr	Phe	Tyr	Gly	Ile	Lys	Asn	Asp	Ile	Gln	His	Ala	Gly
				85					90					95	

Val	Gln	Tyr	Ile	Leu	Asp	Ser	Val	Ile	Ser	Ala	Leu	Leu	Ala	Asp	Pro
			100					105					110		

Thr	Arg	Arg	Phe	Ile	Tyr	Val	Glu	Ile	Ala	Phe	Phe	Ser	Arg	Trp	Trp
		115					120					125			

His	Gln	Gln	Thr	Asn	Ala	Thr	Gln	Glu	Val	Val	Arg	Asp	Leu	Val	Arg
	130					135					140				

Gln	Gly	Arg	Leu	Glu	Phe	Ala	Asn	Gly	Gly	Trp	Val	Met	Asn	Asp	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

450

145		150		155		160
Ala Ala Thr His Tyr Gly Ala Ile Val Asp Gln Met Thr Leu Gly Leu						
		165		170		175
Arg Phe Leu Glu Asp Thr Phe Gly Asn Asp Gly Arg Pro Arg Val Ala						
		180		185		190
Trp His Ile Asp Pro Phe Gly His Ser Arg Glu Gln Ala Ser Leu Phe						
		195		200		205
Ala Gln Met Gly Phe Asp Gly Phe Phe Phe Gly Arg Leu Asp Tyr Gln						
		210		215		220
Asp Lys Trp Val Arg Met Gln Lys Leu Glu Met Glu Gln Val Trp Arg						
225		230		235		240
Ala Ser Thr Ser Leu Lys Pro Pro Thr Ala Asp Leu Phe Thr Gly Val						
		245		250		255
Leu Pro Asn Gly Tyr Asn Pro Pro Arg Asn Leu Cys Trp Asp Val Leu						
		260		265		270
Cys Val Asp Gln Pro Leu Val Glu Asp Pro Arg Ser Pro Glu Tyr Asn						
		275		280		285
Ala Lys Glu Leu Val Asp Tyr Phe Leu Asn Val Ala Thr Ala Gln Gly						
		290		295		300
Arg Tyr Tyr Arg Thr Asn His Thr Val Met Thr Met Gly Ser Asp Phe						
305		310		315		320
Gln Tyr Glu Asn Ala Asn Met Trp Phe Lys Asn Leu Asp Lys Leu Ile						
		325		330		335
Xaa Leu Val Asn Ala Gln Gly Lys Arg Lys Gln Cys Pro Cys Ser Leu						
		340		345		350
Leu His Pro Arg Leu Leu Pro Leu Gly Ala Glu Gln Gly Gln Pro His						
		355		360		365
Leu Val Ser Xaa Thr						
		370				

<210> 499

<211> 238

<212> PRT

<213> Homo sapiens

451

<400> 499

Ala Leu Pro Gly Pro Asp Trp His Gly Ala Gly Ala Ala Asp Arg Gly
 1 5 10 15
 Pro Ala Ala Pro Pro Arg Pro Gly Pro Cys Ala Tyr Ala Ala His Gly
 20 25 30
 Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg Cys Leu His Asp Ile Ala
 35 40 45
 Leu Ala His Arg Ala Ala Thr Ala Ala Arg Pro Pro Ala Pro Pro Pro
 50 55 60
 Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser Pro Pro Arg Pro Thr Leu
 65 70 75 80
 Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp Glu Pro Thr Glu Thr Glu
 85 90 95
 Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp Asn Gly Gly Leu Phe Val
 100 105 110
 Met Asp Glu Asp Ala Thr Leu Gln Asp Leu Pro Pro Phe Cys Glu Ser
 115 120 125
 Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu Ser Glu Glu Thr Pro Ala
 130 135 140
 Gly Pro Pro Thr Cys Ser Val Pro Pro Ala Ser Ala Leu Pro Thr Gln
 145 150 155 160
 Gln Tyr Ala Lys Ser Leu Pro Val Ser Val Pro Val Trp Gly Phe Lys
 165 170 175
 Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp Glu Glu Asn Gly Pro Pro
 180 185 190
 Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala Ser Met Arg Ala Leu Val
 195 200 205
 Leu Arg Glu Ala Glu Asp Thr Gln Val Phe Gly Asp Leu Pro Arg Pro
 210 215 220
 Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu Lys Arg Lys Tyr
 225 230 235

<210> 500

<211> 198

<212> PRT

452

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 500

Asn	Ser	Ala	Glu	Leu	Ser	Pro	Gly	Leu	Cys	Ser	Pro	Thr	Pro	Thr	Glu
1				5					10					15	

Ala	Arg	Ala	Gly	Asp	Ala	Gly	Pro	Ala	Ala	Arg	Ser	Arg	Lys	Gln	Asn
			20					25					30		

Pro	Gln	Ser	Pro	Pro	Cys	Cys	Cys	Val	Asp	Asp	Thr	Trp	Ala	Gln	Ala
		35					40					45			

Glu	Val	Gly	Pro	Val	Thr	Ser	Cys	Thr	Gly	Phe	Val	Glu	Gly	Ser	Ser
	50					55					60				

Arg	Thr	Gly	Gly	Met	Gly	Ser	Ala	Cys	Ile	Lys	Val	Thr	Lys	Tyr	Phe
65					70					75					80

Leu	Phe	Leu	Phe	Asn	Leu	Ile	Phe	Phe	Ile	Leu	Gly	Ala	Xaa	Ile	Leu
				85					90					95	

Gly	Phe	Gly	Val	Trp	Ile	Leu	Ala	Asp	Lys	Ser	Ser	Phe	Ile	Ser	Val
			100					105					110		

Leu	Gln	Thr	Ser	Ser	Ser	Ser	Leu	Arg	Met	Gly	Ala	Tyr	Val	Phe	Ile
		115					120					125			

Gly	Val	Gly	Ala	Val	Thr	Met	Leu	Met	Gly	Phe	Leu	Gly	Cys	Ile	Gly
	130					135					140				

Ala	Val	Asn	Glu	Val	Arg	Cys	Leu	Leu	Gly	Leu	Xaa	Phe	Ala	Phe	Leu
145					150					155					160

Leu	Leu	Ile	Leu	Ile	Ala	Gln	Val	Thr	Ala	Gly	Ala	Leu	Phe	Tyr	Phe
				165					170					175	

Asn	Met	Gly	Lys	Val	Ser	Pro	Ser	Leu	Pro	Pro	Ser	Ser	Leu	Gly	Trp
			180					185					190		

Thr	Asn	His	Gly	Gly	Asp
			195		

453

<210> 501
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
 Ser Ser Ala Ser Thr Asn Met Ser Arg Gly Ser Ser Ala Gly Phe Asp
 1 5 10 15
 Arg His Ile Thr Ile Phe Ser Pro Glu Gly Arg Leu Tyr Gln Val Glu
 20 25 30
 Tyr Ala Phe Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val
 35 40 45
 Arg Gly Lys Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val Pro Asp
 50 55 60
 Lys Leu Leu Asp Ser Ser Thr Val Thr His Leu Phe Lys Ile Thr Glu
 65 70 75 80
 Asn Ile Gly Cys Val Met Thr Gly Met Thr Ala Asp Ser Arg Ser Gln
 85 90 95
 Val Gln Arg Ala Arg Tyr Glu Ala Ala Asn Trp Lys Tyr Lys Tyr Gly
 100 105 110
 Tyr Glu Ile Pro Val Asp Met Leu Cys Lys Arg Ile Ala Asp Ile Ser
 115 120 125
 Gln Val Tyr Thr Gln Asn Ala Glu Met Arg Pro Leu Gly Cys Cys Met
 130 135 140
 Ile Leu Ile Gly Ile Asp Glu Glu Gln Gly Pro Gln Val Tyr Lys Cys
 145 150 155 160
 Asp Pro Ala Gly Xaa Tyr Cys Gly Val
 165

<210> 502
 <211> 507

454

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (361)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502

Val	Arg	Gln	Leu	Cys	Arg	Pro	Ala	Glu	Xaa	Asp	Ser	Val	Met	Ala	Glu
1				5					10					15	

Gln	Val	Ala	Leu	Ser	Arg	Thr	Gln	Val	Cys	Gly	Ile	Leu	Arg	Glu	Glu
			20					25					30		

Leu	Phe	Gln	Gly	Asp	Ala	Phe	His	Gln	Ser	Asp	Thr	His	Ile	Phe	Ile
		35					40						45		

Ile	Met	Gly	Ala	Ser	Gly	Asp	Leu	Ala	Lys	Lys	Lys	Ile	Tyr	Pro	Thr
	50					55					60				

Ile	Trp	Trp	Leu	Phe	Arg	Asp	Gly	Leu	Leu	Pro	Glu	Asn	Thr	Phe	Ile
65					70					75					80

Val	Gly	Tyr	Ala	Arg	Ser	Arg	Leu	Thr	Val	Ala	Asp	Ile	Arg	Lys	Gln
				85					90					95	

Ser	Glu	Pro	Phe	Phe	Lys	Ala	Thr	Pro	Glu	Glu	Lys	Leu	Lys	Leu	Glu
			100					105					110		

Asp	Phe	Phe	Ala	Arg	Asn	Ser	Tyr	Val	Ala	Gly	Gln	Tyr	Asp	Asp	Ala
	115						120					125			

Ala	Ser	Tyr	Gln	Arg	Leu	Asn	Ser	His	Met	Asn	Ala	Leu	His	Leu	Gly
	130					135					140				

Ser	Gln	Ala	Asn	Arg	Leu	Phe	Tyr	Leu	Ala	Leu	Pro	Pro	Thr	Val	Tyr
145					150					155					160

Glu	Ala	Val	Thr	Lys	Asn	Ile	His	Glu	Ser	Cys	Met	Ser	Gln	Ile	Gly
				165					170					175	

455

Trp Asn Arg Ile Ile Val Glu Lys Pro Phe Gly Arg Asp Leu Gln Ser
 180 185 190
 Ser Asp Arg Leu Ser Asn His Ile Ser Ser Leu Phe Arg Glu Asp Gln
 195 200 205
 Ile Tyr Arg Ile Asp His Tyr Leu Gly Lys Glu Met Val Gln Asn Leu
 210 215 220
 Met Val Leu Arg Phe Ala Asn Arg Ile Phe Gly Pro Ile Trp Asn Arg
 225 230 235 240
 Asp Asn Ile Ala Cys Val Ile Leu Thr Phe Lys Glu Pro Phe Gly Thr
 245 250 255
 Glu Gly Arg Gly Gly Tyr Phe Asp Glu Phe Gly Ile Ile Arg Asp Val
 260 265 270
 Met Gln Asn His Leu Leu Gln Met Leu Cys Leu Val Ala Met Glu Lys
 275 280 285
 Pro Ala Ser Thr Asn Ser Asp Asp Val Arg Asp Glu Lys Val Lys Val
 290 295 300
 Leu Lys Cys Ile Ser Glu Val Gln Ala Asn Asn Val Val Leu Gly Gln
 305 310 315 320
 Tyr Val Gly Asn Pro Asp Gly Glu Gly Glu Ala Thr Lys Gly Tyr Leu
 325 330 335
 Asp Asp Pro Thr Val Pro Arg Gly Ser Thr Thr Ala Thr Phe Ala Ala
 340 345 350
 Val Val Leu Tyr Val Glu Asn Glu Xaa Trp Asp Gly Val Pro Phe Ile
 355 360 365
 Leu Arg Cys Gly Lys Ala Leu Asn Glu Arg Lys Ala Glu Val Arg Leu
 370 375 380
 Gln Phe His Asp Val Ala Gly Asp Ile Phe His Gln Gln Cys Lys Arg
 385 390 395 400
 Asn Glu Leu Val Ile Arg Val Gln Pro Asn Glu Ala Val Tyr Thr Lys
 405 410 415
 Met Met Thr Lys Lys Pro Gly Met Phe Phe Asn Pro Glu Glu Ser Glu
 420 425 430
 Leu Asp Leu Thr Tyr Gly Asn Arg Tyr Lys Asn Val Lys Leu Pro Asp
 435 440 445

456

Ala Tyr Glu Arg Leu Ile Leu Asp Val Phe Cys Gly Xaa Gln Met His
 450 455 460

Phe Val Arg Arg Thr Ser Ser Val Arg Pro Gly Val Phe Ser Pro His
 465 470 475 480

Cys Cys Thr Arg Leu Ser Trp Arg Ser Pro Ser Pro Ser Pro Ile Phe
 485 490 495

Met Ala Ala Glu Ala Pro Arg Arg Gln Thr Ser
 500 505

<210> 503

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Gly Pro Glu Val Leu Pro Glu Pro Arg Val Pro Arg Glu Ala Leu Ala
 1 5 10 15

Phe Ile Ile Arg Ser Phe Gly Gly Glu Val Ser Trp Asp Lys Ser Leu
 20 25 30

Cys Ile Gly Ala Thr Tyr Asp Val Thr Asp Ser Arg Ile Thr His Gln
 35 40 45

Ile Val Asp Arg Pro Gly Gln Gln Thr Ser Val Ile Gly Arg Cys Tyr
 50 55 60

Val Gln Pro Gln Xaa Val Phe Asp Ser Val Asn Ala Arg Leu Leu Leu
 65 70 75 80

Pro Val Ala Glu Tyr Phe Ser Gly Val Gln Leu Pro Pro His Leu Ser
 85 90 95

Pro Phe Val Thr Glu Lys Glu Gly Asp Tyr Val Pro Pro Glu Lys Leu
 100 105 110

Lys Leu Leu Ala Leu Gln Arg Gly Glu Asp Pro Gly Asn Leu Asn Glu
 115 120 125

Ser Glu Glu Glu Glu Glu Asp Asp Asn Asn Glu Gly Asp Gly Asp

457

130		135		140
Glu Glu Gly Glu Asn Glu Glu Glu Glu Glu Asp Ala Glu Ala Gly Ser				
145		150		155
				160
Glu Lys Glu Glu Glu Ala Arg Leu Ala Ala Leu Glu Glu Gln Arg Met				
	165		170	175
Glu Gly Lys Lys Pro Arg Val Met Ala Gly Thr Leu Lys Leu Glu Asp				
	180		185	190
Lys Gln Arg Leu Ala Gln Glu Glu Glu Ser Glu Ala Lys Arg Leu Ala				
	195		200	205
Ile Met Met Met Lys Lys Arg Glu Lys Tyr Leu Tyr Gln Lys Ile Met				
	210		215	220
Phe Gly Lys Arg Arg Lys Ile Arg Glu Ala Asn Lys Leu Ala Glu Lys				
	225		230	235
				240
Arg Lys Ala His Asp Glu Ala Val Arg Ser Glu Lys Lys Ala Lys Lys				
	245		250	255
Ala Arg Pro Glu				
	260			

<210> 504

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (342)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

Leu Leu Gln Arg Cys Tyr Ala Phe Pro Gly His Arg Leu Ala His Ser
1 5 10 15

Gly Ser Asp Leu Ser Leu Leu Val Pro Glu Ile Glu Asp Met Tyr Ser
20 25 30

Ser Pro Tyr Leu Arg Pro Ser Glu Ser Pro Ile Thr Val Glu Val Asn

458

35	40	45																	
Cys	Thr	Asn	Pro	Gly	Thr	Arg	Tyr	Cys	Trp	Met	Ser	Thr	Gly	Leu	Tyr				
50						55					60								
Ile	Pro	Gly	Arg	Gln	Ile	Ile	Glu	Val	Ser	Leu	Pro	Glu	Ala	Ala	Ala				
65					70					75					80				
Ser	Ala	Asp	Leu	Lys	Ile	Gln	Ile	Gly	Cys	His	Thr	Asp	Asp	Leu	Thr				
				85					90					95					
Arg	Ala	Ser	Lys	Leu	Phe	Arg	Gly	Pro	Leu	Val	Ile	Asn	Arg	Cys	Cys				
			100					105					110						
Leu	Asp	Lys	Pro	Thr	Lys	Ser	Ile	Thr	Cys	Leu	Trp	Gly	Gly	Leu	Leu				
	115						120					125							
Tyr	Ile	Ile	Val	Pro	Gln	Asn	Ser	Lys	Leu	Gly	Ser	Val	Pro	Val	Thr				
130						135						140							
Val	Lys	Gly	Ala	Val	His	Ala	Pro	Tyr	Tyr	Lys	Leu	Gly	Glu	Thr	Thr				
145					150					155					160				
Leu	Glu	Glu	Trp	Lys	Arg	Arg	Ile	Gln	Glu	Asn	Pro	Gly	Pro	Trp	Gly				
				165					170					175					
Glu	Leu	Ala	Thr	Asp	Asn	Ile	Ile	Leu	Thr	Val	Pro	Thr	Ala	Asn	Leu				
			180					185					190						
Arg	Thr	Leu	Glu	Asn	Pro	Glu	Pro	Leu	Leu	Arg	Leu	Trp	Asp	Glu	Val				
	195						200					205							
Met	Gln	Ala	Val	Ala	Arg	Leu	Gly	Ala	Glu	Pro	Phe	Pro	Leu	Arg	Leu				
210						215					220								
Pro	Gln	Arg	Ile	Val	Ala	Asp	Val	Gln	Ile	Ser	Val	Gly	Trp	Met	His				
225					230					235					240				
Ala	Gly	Tyr	Pro	Ile	Met	Cys	His	Leu	Glu	Ser	Val	Gln	Glu	Leu	Ile				
				245					250					255					
Asn	Glu	Lys	Leu	Ile	Arg	Thr	Lys	Gly	Leu	Trp	Gly	Pro	Val	His	Glu				
			260					265					270						
Leu	Gly	Arg	Asn	Gln	Gln	Arg	Gln	Glu	Trp	Glu	Phe	Pro	Pro	His	Thr				
	275						280					285							
Thr	Glu	Ala	Xaa	Cys	Asn	Leu	Trp	Cys	Val	Tyr	Val	His	Glu	Thr	Val				
290						295					300								
Leu	Gly	Ile	Pro	Arg	Ser	Arg	Ala	Asn	Ile	Ala	Leu	Trp	Pro	Pro	Val				

305						310						315						320
Arg	Glu	Lys	Arg	Val	Arg	Ile	Tyr	Leu	Ser	Lys	Gly	Pro	Asn	Val	Lys			
325					330					335								
Asn	Trp	Asn	Ala	Trp	Xaa	Ala	Leu	Glu	Thr	Tyr	Leu	Gln	Leu	Gln	Glu			
340					345					350								
Ala	Phe	Gly	Trp	Glu	Pro	Phe	Ile	Arg	Leu	Phe	Thr	Glu	Tyr	Arg	Asn			
355					360					365								
Gln	Thr	Asn	Leu	Pro	Thr	Glu	Asn	Val	Asp	Lys	Met	Asn	Leu	Trp	Val			
370					375					380								
Lys	Met	Phe	Ser	His	Gln	Val	Gln	Lys	Asn	Leu	Ala	Pro	Phe	Phe	Glu			
385					390					395					400			
Ala	Trp	Ala	Gly	Pro	Ser	Arg	Arg	Lys	Trp	Leu	Pro	Ala	Trp	Pro	Ile			
405					410					415								
Cys	Leu	Asn	Gly	Arg	Lys	Ile	Leu											
420																		

<210> 505

<211> 70

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

460

```

Leu His Gln Ser Leu Leu His Leu Glu Lys Thr Asn Glu Arg Lys Ser
 1              5              10              15

Ile Phe Leu Ile His Tyr Pro Asn Asn Asn Arg Thr Pro Tyr Arg Asn
          20              25              30

Tyr Tyr His Tyr Val Ser Lys His Tyr Ile Pro Ile Thr Tyr Pro Thr
      35              40              45

Xaa Ser Ile Ile Asp Xaa Ile Ser Ile Pro Thr Met Ile Ser Ala Leu
      50              55              60

Asn Xaa Gln Asn Lys Xaa
 65              70

```

<210> 506

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (363)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

```

Ser Thr His Ala Ser Ala His Ala Ser Val Ser Thr Ala Ala Ala Ala
 1              5              10              15

Ala Leu Ala Ala Ala Ala Val Lys Ala Lys His Leu Ala Ala Val Glu
          20              25              30

Glu Arg Lys Ile Lys Ser Leu Val Ala Leu Leu Val Glu Thr Gln Met
      35              40              45

Lys Lys Leu Glu Ile Lys Leu Arg His Phe Glu Glu Leu Glu Thr Ile
      50              55              60

Met Asp Arg Glu Xaa Glu Ala Leu Glu Tyr Gln Arg Gln Gln Leu Leu

```


461

65					70						75					80
Ala	Asp	Arg	Gln	Ala	Phe	His	Met	Glu	Gln	Leu	Lys	Tyr	Ala	Glu	Met	
				85						90				95		
Arg	Ala	Arg	Gln	Gln	His	Phe	Gln	Gln	Met	His	Gln	Gln	Gln	Gln	Gln	
			100						105					110		
Pro	Pro	Pro	Ala	Leu	Pro	Pro	Gly	Ser	Gln	Pro	Ile	Pro	Pro	Thr	Gly	
			115						120					125		
Ala	Ala	Gly	Pro	Pro	Ala	Xaa	His	Gly	Leu	Ala	Val	Ala	Pro	Ala	Ser	
			130				135					140				
Val	Val	Pro	Ala	Pro	Ala	Gly	Ser	Gly	Ala	Pro	Pro	Gly	Ser	Leu	Gly	
145					150					155					160	
Pro	Ser	Glu	Gln	Ile	Gly	Gln	Ala	Gly	Ser	Thr	Ala	Gly	Pro	Gln	Gln	
				165						170				175		
Gln	Gln	Pro	Ala	Gly	Ala	Pro	Gln	Pro	Gly	Ala	Val	Pro	Pro	Gly	Val	
			180						185					190		
Pro	Pro	Pro	Gly	Pro	His	Gly	Pro	Ser	Pro	Phe	Pro	Asn	Gln	Gln	Thr	
			195					200					205			
Pro	Pro	Ser	Met	Met	Pro	Gly	Ala	Val	Pro	Gly	Ser	Gly	His	Pro	Gly	
			210				215					220				
Val	Ala	Gly	Asn	Ala	Pro	Leu	Gly	Leu	Pro	Phe	Gly	Met	Pro	Pro	Pro	
225					230					235					240	
Pro	Pro	Pro	Pro	Ala	Pro	Ser	Ile	Ile	Pro	Phe	Gly	Ser	Leu	Ala	Asp	
				245					250					255		
Ser	Ile	Ser	Ile	Asn	Leu	Pro	Ala	Pro	Pro	Asn	Leu	His	Gly	His	His	
			260					265					270			
His	His	Leu	Pro	Phe	Ala	Pro	Gly	Thr	Leu	Pro	Pro	Pro	Asn	Leu	Pro	
			275				280						285			
Val	Ser	Met	Ala	Asn	Pro	Leu	His	Pro	Asn	Leu	Pro	Ala	Thr	Thr	Thr	
			290				295					300				
Met	Pro	Ser	Ser	Leu	Pro	Leu	Gly	Pro	Gly	Leu	Gly	Ser	Ala	Ala	Ala	
305					310					315					320	
Gln	Ser	Pro	Ala	Ile	Val	Ala	Ala	Val	Gln	Gly	Asn	Leu	Leu	Pro	Ser	
				325					330					335		
Ala	Ser	Pro	Leu	Pro	Asp	Pro	Gly	Thr	Pro	Leu	Pro	Pro	Asp	Pro	Thr	

462

340							345					350				
Ala	Pro	Ser	Pro	Arg	His	Gly	His	Pro	Cys	Xaa	His	Leu	His	Ser	Glu	
355							360			365						
Glu	Pro	Ala	Arg	His	Leu	Ser	Pro	Ser	Pro	Pro	Val	Asp	Ile	Thr	Val	
370							375			380						
Pro	Gly	Thr	Ala	Leu	Pro	Pro	Pro	Leu	Gly	Pro	Ser	Pro	Ala	Trp	Arg	
385							390			395					400	
Val	His	His	Tyr	Val	Arg	Lys	Ala	Pro	Ser	Ala	Pro	Pro	Lys	Pro	Ser	
				405			410					415				
Pro	Cys	Leu	Thr	Glu	Ala	Cys	Ile	Phe	Ile	Ser	Asp	Tyr	Ser	Arg	Thr	
			420				425					430				
Ser		Val														

<210> 507

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu Tyr Arg Val Leu
1 5 10 15

Ile Thr Thr Leu Ile Thr Ala Gly Ser Trp Ser Arg Pro Ser Phe Pro
20 25 30

Leu Ile Thr Ser His Thr Ser Ser Ser Met Arg Leu Ala Thr Ala Trp
35 40 45

Ser Leu Arg Ser Leu Val Ala Ile Ala Gly Leu Met Glu Val Lys Glu
50 55 60

Thr Gly Asp Pro Gly Gly Gln Leu Val Leu Ala Gly Asp Pro Arg Gln

463

65					70						75					80
Leu	Gly	Pro	Val	Leu	Arg	Ser	Pro	Leu	Thr	Gln	Lys	His	Gly	Leu	Gly	
				85					90					95		
Tyr	Ser	Leu	Leu	Glu	Arg	Leu	Leu	Thr	Tyr	Asn	Ser	Leu	Tyr	Lys	Lys	
		100						105					110			
Gly	Pro	Asp	Gly	Tyr	Asp	Pro	Gln	Phe	Ile	Thr	Lys	Leu	Leu	Arg	Asn	
		115					120					125				
Tyr	Arg	Ser	His	Pro	Thr	Ile	Leu	Asp	Ile	Pro	Asn	Gln	Leu	Tyr	Tyr	
	130					135					140					
Glu	Gly	Glu	Leu	Gln	Ala	Cys	Ala	Asp	Val	Val	Asp	Arg	Glu	Arg	Phe	
145				150					155						160	
Cys	Arg	Trp	Ala	Xaa	Leu	Pro	Arg	Gln	Gly	Phe	Pro	Ile	Ile	Phe	His	
			165					170						175		
Gly	Val	Met	Gly	Lys	Asp	Glu	Arg	Glu	Gly	Asn	Ser	Pro	Ser	Phe	Phe	
		180						185					190			
Asn	Pro	Glu	Glu	Ala	Ala	Thr	Val	Thr	Ser	Tyr	Leu	Lys	Leu	Leu	Leu	
	195						200					205				
Ala	Pro	Ser	Ser	Lys	Lys	Gly	Lys	Ala	Arg	Leu	Ser	Pro	Arg	Ser	Val	
	210					215						220				
Gly	Val	Ile	Ser	Pro	Tyr	Arg	Lys	Gln	Val	Glu	Lys	Ile	Arg	Tyr	Cys	
225				230						235				240		
Ile	Thr	Lys	Leu	Asp	Arg	Glu	Leu	Arg	Gly	Leu	Asp	Asp	Ile	Lys	Asp	
			245						250					255		
Leu	Lys	Val	Gly	Ser	Val	Glu	Glu	Phe	Gln	Gly	Gln	Glu	Arg	Ser	Val	
		260						265					270			
Ile	Leu	Ile	Ser	Thr	Val	Arg	Xaa	Ala	Arg	Ala	Leu	Cys	Ser	Trp	Ile	
	275						280					285				
Trp	Thr	Leu	Ile	Trp	Val	Ser	Leu	Arg	Thr	Pro	Arg	Gly	Ser	Met		
	290					295					300					

<210> 508

<211> 250

<212> PRT

<213> Homo sapiens

464

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Glu	Gln	Tyr	Leu	Pro	Leu	Thr	Glu	Glu	Glu	Leu	Glu	Lys	Glu	Ala	Xaa
1				5					10					15	

Lys	Val	Glu	Gly	Phe	Asp	Leu	Val	Gln	Lys	Pro	Ser	Tyr	Tyr	Val	Arg
		20						25					30		

Leu	Gly	Ser	Leu	Ser	Thr	Lys	Leu	His	Ser	Arg	Ala	Tyr	Gln	Gln	Ala
		35					40					45			

Leu	Ser	Arg	Val	Lys	Glu	Ala	Lys	Gln	Lys	Ser	Gln	Gln	Thr	Ile	Ser
	50					55					60				

Gln	Leu	His	Ser	Thr	Val	His	Leu	Ile	Glu	Phe	Ala	Arg	Lys	Asn	Val
65					70					75					80

Tyr	Ser	Ala	Asn	Gln	Lys	Ile	Gln	Asp	Ala	Gln	Asp	Lys	Leu	Tyr	Leu
			85					90						95	

Ser	Trp	Val	Glu	Trp	Lys	Arg	Ser	Ile	Gly	Tyr	Asp	Asp	Thr	Asp	Glu
		100						105					110		

Ser	His	Cys	Ala	Glu	His	Ile	Glu	Ser	Arg	Thr	Leu	Ala	Ile	Ala	Arg
		115					120					125			

Asn	Leu	Thr	Gln	Gln	Leu	Gln	Thr	Thr	Cys	His	Thr	Leu	Leu	Ser	Asn
130						135					140				

Ile	Gln	Gly	Val	Pro	Gln	Asn	Ile	Gln	Asp	Gln	Ala	Lys	His	Met	Gly
145					150				155						160

Val	Met	Ala	Gly	Asp	Ile	Tyr	Ser	Val	Phe	Arg	Asn	Ala	Ala	Ser	Phe
			165						170					175	

Lys	Glu	Val	Ser	Asp	Ser	Leu	Leu	Thr	Ser	Ser	Lys	Gly	Gln	Leu	Gln
		180						185					190		

Lys	Met	Lys	Glu	Ser	Leu	Asp	Asp	Val	Met	Asp	Tyr	Leu	Val	Asn	Asn
		195					200					205			

Thr	Pro	Leu	Asn	Trp	Leu	Val	Gly	Pro	Phe	Tyr	Pro	Gln	Leu	Thr	Glu
	210					215					220				

Ser	Gln	Asn	Ala	Gln	Asp	Gln	Gly	Ala	Glu	Met	Asp	Lys	Ser	Ser	Gln
225				230						235					240

Glu Thr Gln Arg Ser Glu His Lys Thr His
245 250

<210> 509

<211> 98

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 509

His Glu Leu Trp Gly Cys Gly Pro Val Thr Pro Arg Arg Thr Ala Pro
1 5 10 15

Ser Gly Trp Ala Gln Ala Pro Leu Ser Asp Thr Ala Gln Val Tyr Met
20 25 30

Glu Leu Gln Gly Leu Val Asp Pro Gln Ile Gln Leu Pro Leu Leu Ala
35 40 45

Ala Arg Ser Thr Ser Cys Arg Ser Ser Leu Ile Ala Ser Gln Pro Gly
50 55 60

Pro	His	Gln	Lys	Gly	Arg	Gln	Gly	Leu	Arg	Gly	Asn	Lys	Ser	Phe	Leu
65					70					75					80

Pro Ser Ser Trp Asn Cys Gln Asn Trp Thr Arg Gln Pro Leu Thr Ser
85 90 95

Xaa Ser

<210> 510

<211> 392

<212> PRT

<213> Homo sapiens

<400> 510

Gly Ala Met Arg Gly Asp Arg Gly Arg Gly Arg Gly Gly Arg Phe Gly
1 5 10 15

Ser Arg Gly Gly Pro Gly Gly Gly Phe Arg Pro Phe Val Pro His Ile
20 25 30

466

Pro	Phe	Asp	Phe	Tyr	Leu	Cys	Glu	Met	Ala	Phe	Pro	Arg	Val	Lys	Pro	35	40	45
Ala	Pro	Asp	Glu	Thr	Ser	Phe	Ser	Glu	Ala	Leu	Leu	Lys	Arg	Asn	Gln	50	55	60
Asp	Leu	Ala	Pro	Asn	Ser	Ala	Glu	Gln	Ala	Ser	Ile	Leu	Ser	Leu	Val	65	70	75
Thr	Lys	Ile	Asn	Asn	Val	Ile	Asp	Asn	Leu	Ile	Val	Ala	Pro	Gly	Thr	85	90	95
Phe	Glu	Val	Gln	Ile	Glu	Glu	Val	Arg	Gln	Val	Gly	Ser	Tyr	Lys	Lys	100	105	110
Gly	Thr	Met	Thr	Thr	Gly	His	Asn	Val	Ala	Asp	Leu	Val	Val	Ile	Leu	115	120	125
Lys	Ile	Leu	Pro	Thr	Leu	Glu	Ala	Val	Ala	Ala	Leu	Gly	Asn	Lys	Val	130	135	140
Val	Glu	Ser	Leu	Arg	Ala	Gln	Asp	Pro	Ser	Glu	Val	Leu	Thr	Met	Leu	145	150	155
Thr	Asn	Glu	Thr	Gly	Phe	Glu	Ile	Ser	Ser	Ser	Asp	Ala	Thr	Val	Lys	165	170	175
Ile	Leu	Ile	Thr	Thr	Val	Pro	Pro	Asn	Leu	Arg	Lys	Leu	Asp	Pro	Glu	180	185	190
Leu	His	Leu	Asp	Ile	Lys	Val	Leu	Gln	Ser	Ala	Leu	Ala	Ala	Ile	Arg	195	200	205
His	Ala	Arg	Trp	Phe	Glu	Glu	Asn	Ala	Ser	Gln	Ser	Thr	Val	Lys	Val	210	215	220
Leu	Ile	Arg	Leu	Leu	Lys	Asp	Leu	Arg	Ile	Arg	Phe	Pro	Gly	Phe	Glu	225	230	235
Pro	Leu	Thr	Pro	Trp	Ile	Leu	Asp	Leu	Leu	Gly	His	Tyr	Ala	Val	Met	245	250	255
Asn	Asn	Pro	Thr	Arg	Gln	Pro	Leu	Ala	Leu	Asn	Val	Ala	Tyr	Arg	Arg	260	265	270
Cys	Leu	Gln	Ile	Leu	Ala	Ala	Gly	Leu	Phe	Leu	Pro	Gly	Ser	Val	Gly	275	280	285
Ile	Thr	Asp	Pro	Cys	Glu	Ser	Gly	Asn	Phe	Arg	Val	His	Thr	Val	Met	290	295	300

467

Thr Leu Glu Gln Gln Asp Met Val Cys Tyr Thr Ala Gln Thr Leu Val
 305 310 315 320
 Arg Ile Leu Ser His Gly Gly Phe Arg Lys Ile Leu Gly Gln Glu Gly
 325 330 335
 Asp Ala Ser Tyr Leu Ala Ser Glu Ile Ser Thr Trp Asp Gly Val Ile
 340 345 350
 Val Thr Pro Ser Glu Lys Ala Tyr Glu Lys Pro Pro Glu Lys Lys Glu
 355 360 365
 Gly Glu Glu Glu Glu Glu Asn Thr Glu Glu Pro Pro Gln Gly Glu Glu
 370 375 380
 Glu Glu Ser Met Glu Thr Gln Glu
 385 390

<210> 511
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 511
 His Gly Gly Gly Lys Gly Arg Gln Val Gly Leu His Ser Val Gln Arg
 1 5 10 15
 Pro Ala Arg Arg Glu Thr Ala Ala Ser Trp Gly Leu Cys Val Lys Ile
 20 25 30
 Pro Asp Leu Gly Val Ala Phe Val Tyr Lys Met Gln Glu Gly Lys Pro
 35 40 45
 Val Pro Asp Ser Ser Arg Gln His Ala Gln Leu Ser Gly Ser Pro Val
 50 55 60
 Ser Gln Gly Leu Ser Leu Pro Leu
 65 70

<210> 512
 <211> 181
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Gly	Trp	Cys	Ser	Cys	Ala	His	Ser	Ser	Ala	Trp	Pro	Gly	Xaa	Trp	Gly
1				5					10					15	

Ala	Ser	Gly	Ile	Pro	Gln	Gln	Ala	Pro	Met	Thr	Val	Cys	Asp	Gln	Ala
			20					25					30		

Xaa	Pro	Val	Thr	Phe	Leu	Leu	Leu	His	Leu	Glu	Gly	Gly	Asp	Ile	His
		35					40					45			

Thr	Val	Ser	His	Leu	Ser	Ser	Pro	Pro	Pro	Gly	Val	Ala	His	Arg	Met
	50					55					60				

Gly	Thr	Gly	Gly	Ser	Arg	Asn	Pro	Asn	Pro	Ala	Trp	Leu	Gly	Gly	Ala
65					70					75					80

Leu	Leu	Val	Arg	Gly	Arg	Pro	Ala	Ser	Leu	Ala	Pro	Trp	Gly	His	Ser
				85					90					95	

Trp	Lys	Arg	Gly	Leu	Ala	His	Ala	Pro	Leu	Arg	Ala	Gly	Thr	Cys	Thr
			100					105					110		

Gly	His	Thr	Arg	His	Ser	Ala	Cys	Trp	Asn	Arg	Trp	Leu	Cys	Ser	Cys
		115					120					125			

Ser	Gly	Pro	Arg	Ala	Ala	Xaa	Leu	Arg	Pro	Cys	Thr	Ser	His	Met	His
	130					135					140				

Trp	Thr	Arg	Ala	Glu	Thr	Pro	Val	Cys	Tyr	Arg	Ala	Leu	Val	Leu	Cys
145					150					155				160	

Gly	Pro	Gly	Ala	Thr	Ala	Gln	Ser	Ser	Gln	Trp	Arg	Ser	Thr	Pro	Leu
				165					170					175	

Asp	Ser	Ile	Phe	Phe
			180	


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<400> 513
Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Val Pro Xaa Phe
  1             5             10             15

Pro Gly Arg Pro Thr Arg Ala Ile Met Ala Gln Asp Gln Gly Glu Lys
  20             25             30

Glu Asn Pro Met Arg Glu Leu Arg Ile Arg Lys Leu Cys Leu Asn Ile
  35             40             45

Cys Val Gly Glu Ser Gly Asp Arg Leu Thr Arg Ala Ala Lys Val Leu
  50             55             60

Glu Gln Leu Thr Gly Gln Thr Pro Val Phe Ser Lys Ala Arg Tyr Thr
  65             70             75             80

Val Arg Ser Phe Gly Ile Arg Arg Asn Glu Lys Ile Ala Val His Cys
  85             90             95

Thr Val Arg Gly Ala Lys Ala Glu Glu Ile Leu Glu Lys Gly Leu Lys
  100            105            110

Val Arg Glu Tyr Glu Leu Arg Lys Asn Asn Phe Ser Asp Thr Gly Asn
  115            120            125

Phe Gly Phe Gly Ile Gln Glu His Ile Asp Leu Gly Ile Lys Tyr Asp
  130            135            140

Pro Ser Ile Gly Ile Tyr Gly Leu Asp Phe Tyr Val Val Leu Gly Arg
  145            150            155            160

Pro Gly Phe Ser Ile Ala Asp Lys Lys Arg Arg Thr Gly Cys Ile Gly
  165            170            175

Ala Lys His Arg Ile Ser Lys Glu Glu Ala Met Arg Trp Phe Gln Gln
  180            185            190

Lys Tyr Asp Gly Ile Ile Leu Pro Gly Lys
  195            200

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470

<210> 514
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 514
 Xaa Xaa Lys Asn Xaa Ile Thr Pro Lys Glu Glu Ser Pro Pro His Xaa
 1 5 10 15

Ala Leu Leu Ser Lys Cys Leu Leu Thr Pro Ser Pro Lys Met Pro Pro
 20 25 30

Ile Leu Xaa Val Met Ala Ala Leu Gly Phe Glu Arg Arg Glu Phe Gly
 35 40 45

Ser Thr Ser Val Glu Arg Val Gln Ser Arg Gln Leu Asp Cys Phe
 50 55 60

<210> 515
 <211> 218
 <212> PRT
 <213> Homo sapiens

471

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Ser	Leu	Ala	Arg	Gly	Cys	Gln	Arg	Pro	Asp	Ala	Val	Leu	Tyr	Ala	Arg
1				5				10						15	

His	Tyr	Asn	Ile	Pro	Val	Ile	His	Ala	Phe	Arg	Arg	Ala	Val	Asp	Asp
		20					25						30		

Pro	Gly	Leu	Val	Phe	Asn	Gln	Leu	Pro	Lys	Met	Leu	Tyr	Pro	Glu	Tyr
	35					40						45			

His	Lys	Val	His	Gln	Met	Met	Arg	Glu	Gln	Ser	Ile	Leu	Ser	Pro	Ser
	50				55						60				

Pro	Tyr	Glu	Gly	Tyr	Arg	Ser	Leu	Pro	Arg	His	Gln	Leu	Leu	Cys	Phe
65					70				75					80	

Lys	Glu	Asp	Cys	Gln	Ala	Val	Phe	Gln	Asp	Leu	Glu	Gly	Val	Glu	Lys
			85						90					95	

Val	Phe	Gly	Val	Ser	Leu	Val	Leu	Val	Leu	Ile	Gly	Ser	His	Pro	Asp
		100					105						110		

Leu	Ser	Phe	Leu	Pro	Gly	Ala	Gly	Ala	Asp	Phe	Ala	Val	Asp	Pro	Asp
		115				120						125			

Gln	Pro	Leu	Ser	Ala	Lys	Arg	Asn	Pro	Ile	Asp	Val	Asp	Pro	Phe	Thr
	130					135					140				

Tyr	Gln	Ser	Thr	Arg	Gln	Xaa	Gly	Leu	Tyr	Ala	Met	Gly	Pro	Leu	Ala
145					150					155				160	

Gly	Asp	Asn	Phe	Val	Arg	Phe	Val	Gln	Gly	Gly	Ala	Leu	Ala	Val	Ala
			165					170						175	

Ser	Ser	Leu	Leu	Arg	Lys	Glu	Gln	Asn	His	Leu	His	Arg	Gln	Pro	Trp
		180						185					190		

472

Ser Ser Leu Arg Gly Ile His Pro Leu Ile Asp Leu Lys Ser Gly Val
195 200 205

Xaa Pro Xaa Leu Val Lys Leu Thr Ala Gln
210 215

<210> 516

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 516

Asn Gly Arg Pro Asp Ser Thr Gly Pro Ala Ile Pro Gly Ile Leu Ser
1 5 10 15

Trp Gly Phe Glu Thr Xaa Leu Arg Asp Arg Glu Thr Asp Pro Arg Asn
20 25 30

Val Leu Asn Cys Asn Gly Pro His Thr
35 40

<210> 517

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

473

<400> 517

Gly	Phe	Asn	Arg	Ser	Phe	Cys	Gly	Arg	Asn	Ala	Thr	Val	Tyr	Gly	Lys
1				5					10					15	
Gly	Val	Tyr	Phe	Ala	Arg	Arg	Ala	Ser	Leu	Ser	Val	Gln	Asp	Arg	Tyr
			20					25					30		
Ser	Pro	Pro	Asn	Ala	Asp	Gly	His	Lys	Ala	Val	Phe	Val	Ala	Arg	Val
			35				40					45			
Leu	Thr	Gly	Asp	Tyr	Gly	Gln	Gly	Arg	Arg	Gly	Leu	Arg	Ala	Pro	Pro
	50					55					60				
Leu	Arg	Gly	Pro	Gly	His	Val	Leu	Leu	Arg	Tyr	Asp	Ser	Ala	Val	Asp
65					70					75					80
Cys	Ile	Cys	Gln	Pro	Ser	Ile	Phe	Val	Ile	Phe	His	Asp	Thr	Gln	Ala
				85					90					95	
Leu	Pro	Thr	His	Leu	Ile	Thr	Cys	Glu	Ala	Arg	Ala	Pro	Arg	Phe	Pro
			100					105					110		
Arg	Arg	Pro	Leu	Trp	Xaa	Pro	Gly	Pro	Leu	Pro	Arg	His	Leu	Thr	Glu
		115					120					125			
Gly	Ala	Thr	Leu	Trp	Pro	Pro	Ala	Ser	Gln	Ala	Pro	Ser	Ser	Ala	Gln
	130					135					140				
Ala	Asp	Ala	Pro	Arg	Pro	Gln	Leu	Trp	Pro	Pro	Glu	Leu	Ser	Pro	Gly
145					150					155					160
Xaa	Pro	Cys	Leu	Pro	Leu	Arg	Ala	Pro	Glu	Gly	Gly	Val	Gly	Asp	Gly
			165						170					175	
Gly	Gln	Gln	Arg	Pro	Arg	Gly	Ala	Gly	Leu	Gly	Pro	Ser	Leu	Gly	Arg
			180					185					190		
Pro	His	His	Gln	Gly	Ser	Ala	Glu	Pro	Arg	Arg	Xaa	His	Arg	Pro	Pro
		195					200					205			
Ala	Ala	Pro	Arg	Pro	Arg	Pro	Ser	Arg	Leu	Cys	Cys	Leu	Asn	Lys	Arg
	210					215					220				
Glu	Arg	Glu	Pro	Arg	Arg	Lys	Gly	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys
225					230					235					240
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
				245						250					

474

<210> 518
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 518
 Asn Pro Xaa Lys Lys Leu Xaa Ile Leu Ile Lys Trp Pro Pro Pro Phe
 1 5 10 15
 Pro Pro Ser Phe Pro Pro Ser Pro Asn Ser Leu Ser Ser Ser Ser Phe
 20 25 30
 Pro Pro Pro Leu Ser Leu Phe Ser Pro Ser Phe Thr Phe Leu Ile Ser
 35 40 45
 Val Lys Leu Glu Arg Phe Glu Ile Pro Ile Lys Val Arg Leu Ser Pro
 50 55 60
 Glu Pro Trp Thr Pro Glu Thr Gly Leu Val Thr Asp Ala Phe Lys Leu
 65 70 75 80
 Lys Arg Lys Glu Leu Arg Asn His Tyr Leu Lys Asp Ile Glu Arg Met
 85 90 95
 Tyr Gly Gly Lys
 100

<210> 519
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

475

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

His	Glu	Asp	Gly	Xaa	Leu	Met	Gly	Cys	Arg	His	Arg	Trp	His	Pro	Arg
1				5					10					15	

Xaa	Val	Pro	Phe	His	Gln	Thr	Ser	Pro	Lys	Thr	Glu	Leu	Glu	Ser	Thr
			20					25					30		

Ile	Phe	Gly	Ser	Pro	Arg	Leu	Ala	Ser	Gly	Leu	Phe	Pro	Glu	Trp	Gln
		35					40					45			

Ser	Trp	Gly	Arg	Met	Glu	Asn	Leu	Ala	Ser	Tyr	Arg
	50					55					60

<210> 520

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ser	His	Pro	Tyr	Ala	Pro	Ser	Cys	Gly	Leu	Arg	Gly	Pro	Gly	Ala	Ala
1				5					10					15	

Ser	Arg	Ala	Arg	Thr	Arg	Glu	Arg	Xaa	Pro	Gln	Ala	Glu	Ala	Glu	Ala
		20						25					30		

Arg	Ser	Thr	Pro	Gly	Pro	Ala	Gly	Ser	Arg	Leu	Gly	Pro	Glu	Thr	Phe
		35					40					45			

Arg	Gln	Arg	Phe	Arg	Gln	Phe	Arg	Tyr	Gln	Asp	Ala	Ala	Gly	Pro	Arg
	50					55					60				

Glu	Ala	Phe	Arg	Gln	Leu	Arg	Glu	Leu	Ser	Arg	Gln	Trp	Leu	Arg	Pro
65					70					75					80

Asp	Ile	Arg	Thr	Lys	Glu	Gln	Ile	Val	Glu	Met	Leu	Val	Gln	Glu	Gln
				85					90					95	

Leu	Leu	Ala	Ile	Leu	Pro	Glu	Ala	Ala	Arg	Ala	Arg	Arg	Ile	Arg	Arg
				100				105						110	

Arg Thr Asp Val Arg Ile Thr Gly

476

115

120

<210> 521

<211> 96

<212> PRT

<213> Homo sapiens

<400> 521

Gly His Gln Thr Val Ser Pro Ser Thr Gly Ser Arg Val Thr Arg Met
1 5 10 15

Phe Ser Leu Ile Ser Phe Ser His Val Phe Ile Lys Asp Ile Cys Lys
20 25 30

Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys Trp Tyr
35 40 45

Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly Gly Cys
50 55 60

Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu Lys Val
65 70 75 80

Cys Ala Pro Val Leu Ala Lys Pro Gly Val Ile Ser Val Met Gly Thr
85 90 95

<210> 522

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 522

Asn Ser Gly Phe Arg Pro Lys Asn Pro Val Gly Arg Gly Gly Glu Pro
1 5 10 15

Glu Xaa Cys Gly Gly Ala Gly Gly Leu Gly Cys Thr Leu Val Trp Gly
20 25 30

Gly Thr Gly Ala Ala Val Val Thr Gly Val Val Trp Leu Leu Leu Pro

477

35 40 45
 Asn Gly Gly Val Gly Val Gly Leu Leu Gly Pro Gln Ser Pro Val Gly
 50 55 60
 Gly Ser Asp Ser Ala Pro Tyr Ser Leu His Pro Ala Gly Arg Thr Trp
 65 70 75 80
 Gly Leu Arg Ser Glu Cys Ile Pro Pro Leu Ser Phe Asn Leu Ser Cys
 85 90 95
 Arg Thr His Ser Gly Pro Gly Ala Arg Leu Gly Glu Ala Gly Pro Asn
 100 105 110
 Tyr Gly Ser Arg Glu Leu Gln Val Pro Thr
 115 120

<210> 523

<211> 94

<212> PRT

<213> Homo sapiens

<400> 523

Leu Ile Pro Gln Val Cys Cys Lys His Ser Met Glu Asp Thr Asp Asp
 1 5 10 15
 Ser Leu Val Leu Val Phe Leu Ser Ala Val Asn Val Gln Gln Phe Ala
 20 25 30
 Gln Glu Leu Gly Asp His Ile Cys Leu Ser Gly Gln Gly Ser Glu Val
 35 40 45
 His Trp Asn Leu Leu Arg Asn Leu Phe Val Lys Thr Ile Val Asn Asn
 50 55 60
 Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu Glu Asn Cys Ile Leu Ser
 65 70 75 80
 Ile Lys Val Phe Leu Cys Lys Lys Lys Lys Lys Lys Leu Val
 85 90

<210> 524

<211> 93

<212> PRT

<213> Homo sapiens

<220>

478

<221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 524
 Ser Ala Val Met Gly Arg Lys Lys Lys Lys Gln Leu Lys Pro Trp Cys
 1 5 10 15
 Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His
 20 25 30
 Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr
 35 40 45
 Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr
 50 55 60
 Ile Asp Ala Val Pro Asn Ala Tyr Leu Gly Glu Gln Thr Xaa Ile Gly
 65 70 75 80
 Asn Ile Trp Tyr Gly Xaa Tyr Ser Arg Lys Arg Tyr Xaa
 85 90

 <210> 525
 <211> 324
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (323)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 525
 Asp Leu Arg Leu Ser Arg Pro Glu Ala Val Glu Ala Glu Ala Met Met
 1 5 10 15
 Ala Ala Met Ala Thr Ala Arg Val Arg Met Gly Pro Arg Cys Ala Gln
 20 25 30

Ala Leu Trp Arg Met Pro Trp Leu Pro Val Phe Leu Ser Leu Ala Ala
 35 40 45
 Ala Ala Ala Ala Ala Ala Ala Glu Gln Gln Val Pro Leu Val Leu Trp
 50 55 60
 Ser Ser Asp Arg Asp Leu Trp Ala Pro Ala Ala Asp Thr His Glu Gly
 65 70 75 80
 His Ile Thr Ser Asp Leu Gln Leu Ser Thr Tyr Leu Asp Pro Ala Leu
 85 90 95
 Glu Leu Gly Pro Arg Asn Val Leu Leu Phe Leu Gln Asp Lys Leu Ser
 100 105 110
 Ile Glu Asp Phe Thr Ala Tyr Gly Gly Val Phe Gly Asn Lys Gln Asp
 115 120 125
 Ser Ala Phe Ser Asn Leu Glu Asn Ala Leu Asp Leu Ala Pro Ser Ser
 130 135 140
 Leu Val Leu Pro Ala Val Asp Trp Tyr Ala Val Ser Thr Leu Thr Thr
 145 150 155 160
 Tyr Leu Gln Glu Lys Leu Gly Ala Ser Pro Leu His Val Asp Leu Ala
 165 170 175
 Thr Leu Arg Glu Leu Lys Leu Asn Ala Ser Leu Pro Ala Leu Leu Leu
 180 185 190
 Ile Arg Leu Pro Tyr Thr Ala Ser Ser Gly Leu Met Ala Pro Arg Glu
 195 200 205
 Val Leu Thr Gly Asn Asp Glu Val Ile Gly Gln Val Leu Ser Thr Leu
 210 215 220
 Lys Ser Glu Asp Val Pro Tyr Thr Ala Ala Leu Thr Ala Val Arg Pro
 225 230 235 240
 Ser Arg Val Ala Arg Asp Val Ala Val Val Ala Gly Gly Leu Gly Arg
 245 250 255
 Gln Leu Leu Gln Lys Gln Pro Val Ser Pro Val Ile His Pro Pro Val
 260 265 270
 Ser Tyr Asn Asp Thr Ala Pro Arg Ile Leu Phe Trp Ala Gln Asn Phe
 275 280 285
 Ser Val Ala Tyr Lys Asp Gln Trp Glu Asp Leu Thr Pro Leu Thr Phe
 290 295 300

480

Gly Val Gln Glu Leu Asn Leu Thr Gly Ser Phe Trp Asn Asp Ser Phe
305 310 315 320

Ala Ser Xaa His

<210> 526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 526

Phe Xaa Val Ser Trp Thr Trp Lys Gln Val Ser Glu Phe Pro Gly Asp
1 5 10 15

Gln Arg Asp Glu Val Leu Gln Leu Pro Pro Ser Ser Cys Asn Leu Val
20 25 30

Ser Ser Gly Ala Gly Gly Glu Pro Glu Lys Leu Ala Ser Tyr Ile Thr
35 40 45

Ser Leu Trp Leu Phe Phe Ile Cys Lys Thr Arg Ile Ile Leu Asn Cys
50 55 60

Lys Gly
65

<210> 527

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Asn Thr Gln Leu Trp Phe Leu Cys Phe Pro Asn Cys Lys Ala Ala Asp
1 5 10 15

481

Asn Lys Thr Pro Gly Phe His Val Ser Ser Ala Met Ser Thr Leu Thr
 20 25 30

Gln Ile Leu Lys Gln Asn Ser Xaa Asn Ala Val Leu Arg Ile Gln Leu
 35 40 45

Leu Leu Lys Pro Ile Ser Ile Cys Ile Ile Thr Thr Asn Ile
 50 55 60

<210> 528

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Tyr Asn Lys Ile Glu Ile Met His Leu Val Met Trp Pro Thr Ser Leu
 1 5 10 15

Leu Thr Thr Met Asp Cys Phe Gln Gln Gln Leu Ile Phe Trp Ser Val
 20 25 30

Leu Arg Gly Ala Cys Met Ser Phe Val Thr Ser Gly Ser Thr Pro Ala
 35 40 45

Val Lys Tyr Cys Phe His Leu Pro Leu Gln Lys Ala Ser Cys Leu Leu
 50 55 60

Thr Ser Thr Ala Lys Ala Leu Phe Trp Thr Gly Tyr Leu Ile Lys Xaa
 65 70 75 80

Ile Ser Val Arg Leu Cys Ser Val Ile Pro Ser Glu Pro Arg Phe Val
 85 90 95

Ser Lys Ala Thr Val Leu Ser Xaa Xaa Pro Cys Val Trp Gly Gln Val

482

100 105 110
 Ala Ile Pro Pro Met Ser Leu Val Ile Leu
 115 120

<210> 529
 <211> 182
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 529
 Asp Arg Thr Arg Leu Ser Gln Ala Ser Thr Pro Thr Pro Val Cys Trp
 1 5 10 15
 Gly Leu Leu Gln Pro Pro Pro Trp Xaa Glu Ala Trp Tyr Arg Leu Thr
 20 25 30
 His Arg Gly Leu Cys Gln Val Arg Phe Cys Arg Trp Ser Gln Ala Leu
 35 40 45
 Pro Glu Ala Arg Gly Gly Ala Trp Ala Gly Ser Pro Gly Glu Gly Gln
 50 55 60
 Ala Gly Pro Arg Leu His Thr His Ile Gln Pro Ala Gly Leu Ser Ala
 65 70 75 80
 Val Leu Ser Pro Ser Leu Ser Ser Pro Ser Ser Ala Val Thr Leu Ser
 85 90 95
 Ser Pro Ser Leu Pro Ala Ser Pro Pro Ala Ala Pro Pro Val Lys Arg
 100 105 110
 Met Thr Lys Asp Leu Ser Tyr Ala Gly Ser Lys Asn Gln Asn Phe Leu
 115 120 125
 Leu Ala Phe Ser Phe Val Ala Ser Pro Ala Pro Ala Leu Pro Val Ser
 130 135 140
 His Pro Gly Pro Arg Leu Glu Ala Ser Leu His Leu Ser Tyr Cys Phe
 145 150 155 160
 Lys Pro Lys Phe Thr Val Ser Val Gly Gly Gln Asp Leu Leu Ser Pro
 165 170 175

483

Pro Leu Leu His Pro Pro
180

<210> 530
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530
Ala Leu Val Leu Gly Xaa Lys Ser Val Arg Met Ala Ser Ser Arg Met
1 5 10 15

Thr Arg Arg Asp Pro Leu Thr Asn Lys Val Ala Leu Val Thr Ala Ser
20 25 30

Thr Asp Gly Ile Gly Phe Ala Ser Pro Gly Val Trp Pro Arg Thr Gly
35 40 45

Pro Arg Gly Arg Gln Gln Pro Glu Ala Ala Glu Cys Gly Pro Gly Gly
50 55 60

Gly Thr Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Cys Xaa Xaa
65 70 75 80

Xaa Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
85 90 95

Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn Pro
100 105 110

484

[illegible]

<210> 531

<211> 129

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (103)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 531

Asn Ser Ala Pro Leu Ser Pro Thr Gly Leu Gly Gln Gly His Thr Gly
1 5 10 15

His Val Arg Phe Leu Ala Ala Val Gln Leu Pro Asp Gly Phe Asn Leu
20 25 30

Leu Cys Pro Thr Pro Pro Pro Pro Pro Asp Thr Gly Pro Glu Lys Leu
35 40 45

Pro Ser Leu Glu His Arg Asp Ser Pro Trp His Arg Gly Pro Ala Pro
50 55 60

Ala Arg Pro Lys Met Leu Val Ile Ser Gly Gly Asp Gly Tyr Glu Asp
65 70 75 80

Phe Arg Leu Ser Ser Gly Gly Gly Xaa Ala Val Arg Leu Trp Val Glu
85 90 95

485

Thr Thr Ala Gln Thr Thr Xaa Ser Cys Gly Gly Cys Asp Pro Val Cys
 100 105 110

Arg Gly Pro Gly Leu Ala Arg Pro Pro Ala Phe Ser Leu Leu Ala Ser
 115 120 125

Pro

<210> 532

<211> 91

<212> PRT

<213> Homo sapiens

<400> 532

Gly Ala Ile Ala Ser Ser Gly Pro Thr Gly Gly Arg Val Arg Lys His
 1 5 10 15

Gln Leu Leu Pro Gly Ala Val Arg Glu Trp Glu Gln Leu Trp Ala Pro
 20 25 30

His Phe Arg Gln Val Leu Pro Lys Pro Ser Asp Ala Val Arg Pro Gly
 35 40 45

Leu Pro Val Val Leu Phe Arg Leu Cys Phe Gln Asn Ala Phe Ile Ser
 50 55 60

Ser Val Pro Phe Gly Pro His Lys Ser Pro Trp Gly Val Gly Gly Gly
 65 70 75 80

Leu Cys Arg His Pro His Phe Lys Ala Gly Ser
 85 90

<210> 533

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Asn Leu Cys Gln Val Gln Pro Thr Arg Leu Tyr Ser Ser Leu His Ser
 1 5 10 15

486

Gly Leu His His Val Arg Gln Val Thr Gln Lys Ser Tyr Lys Val Ser
 20 25 30
 Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro
 35 40 45
 Gly Ser Arg Ile Ser Ser Ser Ala Phe Ser Arg Val Gly Gly Xaa Ser
 50 55 60
 Gly Gly Ala
 65

<210> 534
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 534
 Phe Asn Arg Arg Tyr Pro Lys Ile Gln Phe Ser Leu Ser Thr Gly Pro
 1 5 10 15
 Ser Gly Thr Met Leu Asp Gly Val Leu Glu Gly Lys Leu Asn Ala Ala
 20 25 30
 Phe Ile Asp Gly Pro Ile Asn His Thr Ala Ile Asp Gly Ile Pro Val
 35 40 45
 Tyr Arg Glu Glu Leu Met Ile Val Thr Pro Gln Gly Tyr Ala Pro Val
 50 55 60
 Thr Arg Ala Ser Gln Val Asn Gly Ser Asn Ile Tyr Ala Phe Arg Ala
 65 70 75 80
 Asn Cys Ser Tyr Arg Arg His Phe Glu Ser Trp Phe His Ala Asp Gly
 85 90 95
 Ala Ala Pro Gly Thr Ile His Glu Met Glu Ser Tyr His Gly Met Leu
 100 105 110

487

Ala Cys Val Ile Ala Gly Ala Gly Ile Ala Leu Ile Pro Arg Ser Met
 115 120 125

Leu Glu Ser Met Pro Gly His His Gln Val Glu Xaa Xaa Ala Val Ser
 130 135 140

<210> 535
 <211> 175
 <212> PRT
 <213> Homo sapiens

<400> 535
 Arg Ala Pro Ala Arg Ile Ser Gly Gly Gly Ser Ala Met Val Gly Gly
 1 5 10 15

Gly Gly Val Gly Gly Gly Leu Leu Glu Asn Ala Asn Pro Leu Ile Tyr
 20 25 30

Gln Arg Ser Gly Glu Arg Pro Val Thr Ala Gly Glu Glu Asp Glu Gln
 35 40 45

Val Pro Asp Ser Ile Asp Ala Arg Glu Ile Phe Asp Leu Ile Arg Ser
 50 55 60

Ile Asn Asp Pro Glu His Pro Leu Thr Leu Glu Glu Leu Asn Val Val
 65 70 75 80

Glu Gln Val Arg Val Gln Val Ser Asp Pro Glu Ser Thr Val Ala Val
 85 90 95

Ala Phe Thr Pro Thr Ile Pro His Cys Ser Met Ala Thr Leu Ile Gly
 100 105 110

Leu Ser Ile Lys Val Lys Leu Leu Arg Ser Leu Pro Gln Arg Phe Lys
 115 120 125

Met Asp Val His Ile Thr Pro Gly Thr His Ala Ser Glu His Ala Val
 130 135 140

Asn Lys Gln Leu Ala Asp Lys Glu Arg Val Ala Ala Ala Leu Glu Asn
 145 150 155 160

Thr His Leu Leu Glu Val Val Asn Gln Cys Leu Ser Ala Arg Ser
 165 170 175

488

<210> 536

<211> 148

<212> PRT

<213> Homo sapiens

<400> 536

Gly Trp His Arg Thr His His Arg Gly Arg His Gln Ala Arg Glu Ala
 1 5 10 15

Glu Glu Glu Ala Trp Ala Ala Ala Glu Pro Ile Lys Lys Val Arg Lys
 20 25 30

Ser Leu Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser
 35 40 45

Thr Leu Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser
 50 55 60

Ser Ser Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Leu Leu Asn
 65 70 75 80

Gln Gly Phe Leu Gln Ala Lys Pro Glu Lys Ala Ala Val Ala Gln Lys
 85 90 95

Pro Arg Ser His Phe Thr Thr Pro Ala Pro Met Ser Ser Ala Trp Lys
 100 105 110

Thr Val Ala Cys Gly Gly Thr Arg Asp Gln Leu Phe Met Gln Glu Lys
 115 120 125

Ala Arg Gln Leu Leu Gly Arg Leu Lys Pro Ser His Thr Ser Arg Thr
 130 135 140

Leu Ile Leu Ser
 145

<210> 537

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

489

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 537

```

Arg Pro Thr Arg Ser Ala Trp Trp Gly Arg Leu Leu Ser Arg Val Ser
 1              5              10              15

Pro Gln Pro Arg Pro Ala Ser Pro Ser Val Ser Thr Arg Asn Gln Leu
          20              25              30

Pro Glu Ala Arg Arg Gly Val Glu Xaa Xaa Glu Cys Glu Glu Thr Ala
          35              40              45

Ala Ser Ala Glu Arg Ala Gly Pro Pro Arg Ala Leu Val Phe Gly Ala
          50              55              60

Gln Ser Arg Ser Pro Gly
 65              70

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<210> 538

<211> 206

<212> PRT

<213> Homo sapiens

<400> 538

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Gly Glu Val Ser Ala Ser Gly Ile Ala Arg Arg Gly Gly Pro Met Ala
 1              5              10              15

Pro Leu Gly Gly Ala Pro Arg Leu Val Leu Leu Phe Ser Gly Lys Arg
          20              25              30

Lys Ser Gly Lys Asp Phe Val Thr Glu Ala Leu Gln Ser Arg Leu Gly
          35              40              45

Ala Asp Val Cys Ala Val Leu Arg Leu Ser Gly Pro Leu Lys Glu Gln
          50              55              60

Tyr Ala Gln Glu His Gly Leu Asn Phe Gln Arg Leu Leu Asp Thr Ser
          65              70              75              80

Thr Tyr Lys Glu Ala Phe Arg Lys Asp Met Ile Arg Trp Gly Glu Glu
          85              90              95

Lys Arg Gln Ala Asp Pro Gly Phe Phe Cys Arg Lys Ile Val Glu Gly
          100              105              110

Ile Ser Gln Pro Ile Trp Leu Val Ser Asp Thr Arg Arg Val Ser Asp
          115              120              125

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490

Ile Gln Trp Phe Arg Glu Ala Tyr Gly Ala Val Thr Gln Thr Val Arg
 130 135 140
 Val Val Ala Leu Glu Gln Ser Arg Gln Gln Arg Gly Trp Val Phe Thr
 145 150 155 160
 Pro Gly Val Asp Asp Ala Glu Ser Glu Cys Gly Leu Asp Asn Phe Gly
 165 170 175
 Asp Phe Asp Trp Val Ile Glu Asn His Gly Val Glu Gln Arg Leu Glu
 180 185 190
 Glu Gln Leu Glu Asn Leu Ile Glu Phe Ile Arg Ser Arg Leu
 195 200 205

<210> 539

<211> 350

<212> PRT

<213> Homo sapiens

<400> 539

Ser Thr Leu Ile Ala Phe Ile Val Ile Ser Thr Leu Phe Pro Leu Leu
 1 5 10 15
 Asp Met Thr Glu Ile Tyr Phe Ser Leu Leu Asp Glu Ile Val Asp Thr
 20 25 30
 Leu Gly Glu Gly Ala Phe Gly Lys Val Val Glu Cys Ile Asp His Lys
 35 40 45
 Ala Gly Gly Arg His Val Ala Val Lys Ile Val Lys Asn Val Asp Arg
 50 55 60
 Tyr Cys Glu Ala Ala Arg Ser Glu Ile Gln Val Leu Glu His Leu Asn
 65 70 75 80
 Thr Thr Asp Pro Asn Ser Thr Phe Arg Cys Val Gln Met Leu Glu Trp
 85 90 95
 Phe Glu His His Gly His Ile Cys Ile Val Phe Glu Leu Leu Gly Leu
 100 105 110
 Ser Thr Tyr Asp Phe Ile Lys Glu Asn Gly Phe Leu Pro Phe Arg Leu
 115 120 125
 Asp His Ile Arg Lys Met Ala Tyr Gln Ile Cys Lys Ser Val Asn Phe
 130 135 140

491

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Leu His Ser Asn Lys Leu Thr His Thr Asp Leu Lys Pro Glu Asn Ile
145                      150                      155                      160

Leu Phe Val Gln Ser Asp Tyr Thr Glu Ala Tyr Asn Pro Lys Ile Lys
                      165                      170                      175

Arg Asp Glu Arg Thr Leu Ile Asn Pro Asp Ile Lys Val Val Asp Phe
                      180                      185                      190

Gly Ser Ala Thr Tyr Asp Asp Glu His His Ser Thr Leu Val Ser Thr
                      195                      200                      205

Arg His Tyr Arg Ala Pro Glu Val Ile Leu Ala Leu Gly Trp Ser Gln
                      210                      215                      220

Pro Cys Asp Val Trp Ser Ile Gly Cys Ile Leu Ile Glu Tyr Tyr Leu
225                      230                      235                      240

Gly Phe Thr Val Phe Pro Thr His Asp Ser Lys Glu His Leu Ala Met
                      245                      250                      255

Met Glu Arg Ile Leu Gly Pro Leu Pro Lys His Met Ile Gln Lys Thr
                      260                      265                      270

Arg Lys Arg Lys Tyr Phe His His Asp Arg Leu Asp Trp Asp Glu His
                      275                      280                      285

Ser Ser Ala Gly Arg Tyr Val Ser Arg Arg Cys Lys Pro Leu Lys Glu
                      290                      295                      300

Phe Met Leu Ser Gln Asp Val Glu His Glu Arg Leu Phe Asp Leu Ile
305                      310                      315                      320

Gln Lys Met Leu Glu Tyr Asp Pro Ala Lys Arg Ile Thr Leu Arg Glu
                      325                      330                      335

Ala Leu Lys His Pro Phe Phe Asp Leu Leu Lys Lys Ser Ile
                      340                      345                      350

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<210> 540

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (304)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (317)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 540

Gln	Ala	Thr	Met	Gly	Asn	Val	Leu	Ala	Ala	Ser	Ser	Pro	Pro	Ala	Gly
1				5						10				15	

Pro	Pro	Pro	Pro	Pro	Ala	Pro	Ala	Leu	Val	Gly	Leu	Pro	Pro	Pro	Pro
				20				25						30	

Pro	Ser	Pro	Pro	Gly	Phe	Thr	Leu	Pro	Pro	Leu	Gly	Gly	Ser	Leu	Gly
		35					40					45			

Ala	Gly	Thr	Ser	Thr	Xaa	Arg	Xaa	Ser	Glu	Arg	Thr	Pro	Gly	Ala	Ala
	50					55					60				

Thr	Ala	Ser	Ala	Ser	Gly	Ala	Ala	Glu	Asp	Gly	Ala	Cys	Gly	Cys	Leu
65					70					75					80

Pro	Asn	Pro	Gly	Thr	Phe	Glu	Glu	Cys	His	Arg	Lys	Cys	Lys	Glu	Leu
				85					90					95	

Phe	Pro	Ile	Gln	Met	Glu	Gly	Val	Lys	Leu	Thr	Val	Asn	Lys	Gly	Leu
			100					105						110	

493

Ser Asn His Phe Gln Val Asn His Thr Val Ala Leu Ser Thr Ile Gly
 115 120 125
 Glu Ser Asn Tyr His Phe Gly Val Thr Tyr Val Gly Thr Lys Gln Leu
 130 135 140
 Ser Pro Thr Glu Ala Phe Pro Val Leu Val Gly Asp Met Asp Asn Ser
 145 150 155 160
 Gly Ser Leu Asn Ala Gln Val Ile His Gln Leu Gly Pro Gly Leu Arg
 165 170 175
 Ser Lys Met Ala Ile Gln Thr Gln Gln Ser Lys Phe Val Asn Trp Gln
 180 185 190
 Val Asp Gly Glu Tyr Arg Gly Ser Asp Phe Thr Ala Ala Val Thr Leu
 195 200 205
 Gly Asn Pro Asp Val Leu Val Gly Ser Gly Ile Leu Val Ala His Tyr
 210 215 220
 Leu Gln Ser Ile Thr Pro Cys Leu Ala Leu Gly Gly Glu Leu Val Tyr
 225 230 235 240
 His Arg Arg Pro Gly Glu Glu Gly Thr Val Met Ser Leu Ala Gly Lys
 245 250 255
 Tyr Thr Leu Asn Asn Trp Leu Ala Thr Val Thr Leu Gly Gln Ala Gly
 260 265 270
 Met His Ala Thr Tyr Tyr His Lys Ala Ser Asp Gln Leu Gln Val Gly
 275 280 285
 Val Glu Phe Glu Ala Ser Thr Arg Xaa Gln Asp Thr Ser Val Ser Xaa
 290 295 300
 Xaa Val Pro Ala Trp Asn Leu Pro Lys Gly Gln Pro Xaa Leu Ser Lys
 305 310 315 320
 Xaa Leu Leu Gly

<210> 541

<211> 204

<212> PRT

<213> Homo sapiens

<400> 541

494

```

Arg Gly Pro Thr Phe Thr Pro Glu Ile Met Ala Ala Glu Asp Val Val
 1             5             10             15

Ala Thr Gly Ala Asp Pro Ser Asp Leu Glu Ser Gly Gly Leu Leu His
          20             25             30

Glu Ile Phe Thr Ser Pro Leu Asn Leu Leu Leu Leu Gly Leu Cys Ile
          35             40             45

Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala Ala Ser Gly
          50             55             60

Asp Ser Asp Asp Asp Glu Pro Pro Pro Leu Pro Arg Leu Lys Arg Arg
 65             70             75             80

Asp Phe Thr Pro Ala Glu Leu Arg Arg Phe Asp Gly Val Gln Asp Pro
          85             90             95

Arg Ile Leu Met Ala Ile Asn Gly Lys Val Phe Asp Val Thr Lys Gly
          100            105            110

Arg Lys Phe Tyr Gly Pro Glu Gly Pro Tyr Gly Val Phe Ala Gly Arg
          115            120            125

Asp Ala Ser Arg Gly Leu Ala Thr Phe Cys Leu Asp Lys Glu Ala Leu
          130            135            140

Lys Asp Glu Tyr Asp Asp Leu Ser Asp Leu Thr Ala Ala Gln Gln Glu
          145            150            155            160

Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His Val
          165            170            175

Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp Glu
          180            185            190

Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp
          195            200

```

<210> 542

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

495

<400> 542

Pro Ala Tyr Ser Leu Gly Leu Leu Lys Ser Val Leu Asp Gly Gly Gly
 1 5 10 15

Ala Gly Ala His Gln Ala Arg Ser Asn Pro Ser Cys Met Tyr Pro Gln
 20 25 30

Gly Thr Phe Val Ile Pro Leu Leu Val Thr Ala His Arg Asp Pro Thr
 35 40 45

Gln Phe Lys Asp Pro Asp Cys Phe Asn Pro Thr Asn Phe Leu Asp Lys
 50 55 60

Gly Lys Phe Gln Gly Asn Asp Ala Phe Met Pro Phe Ala Ser Gly Ala
 65 70 75 80

Gly Arg Gly Gly Arg Gly Pro Ala Trp Thr Gly Ser Gly Val Pro Gly
 85 90 95

Ala His Cys Ala Pro Val Tyr Pro Ala Lys Gln Met Cys Leu Gly Thr
 100 105 110

Gly Leu Ala His Ser Gly Ile Phe Leu Phe Leu Thr Ala Thr Leu Gln
 115 120 125

Arg Phe Cys Leu Leu Pro Val Val Arg Pro Gly Thr Ile Asn Leu Thr
 130 135 140

Cys Ser Ala Leu Ala Trp Ala Val Ser Pro Gln Thr Ser Ser Ser Ser
 145 150 155 160

Gln Trp Pro Ala Glu Val Arg Leu His Tyr Gly Gly Leu Thr Gly Pro
 165 170 175

Gln Thr Ser Ile Pro Ser Xaa Val Asn Lys Gly Pro Lys Leu Gln Lys
 180 185 190

Lys

<210> 543

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 543

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Ser Thr Val Arg Xaa Pro Gly Arg Pro Thr Arg Pro Met Ala Ala Glu
  1             5             10             15

Glu Pro Gln Gln Gln Lys Gln Glu Pro Leu Gly Ser Asp Ser Glu Val
      20             25             30

Leu Thr Val Trp Pro Met Met Lys Pro Ser Trp Leu Ser Arg Thr Glu
      35             40             45

Phe Ser Lys Arg Leu Leu Cys Arg Thr Leu Trp Cys Gln Ser Gly Trp
      50             55             60

Ser Ser Arg Ser Tyr Thr Arg Ser Met Leu Lys Met Thr Thr Ser Ile
      65             70             75             80

Asn Arg Arg Ser Arg Thr Ser Thr Lys Ser Thr Arg Thr Ser Ala Arg
      85             90             95

Pro Gly Leu Thr Ala Thr Val Ser Ile Gly Leu Ser Asp Ser Pro Thr
      100             105             110

Trp Arg His Cys Trp Met Thr Ala Arg Ser Cys Ser Gly Glu Lys Gly
      115             120             125

Gly His Trp Ala Pro Arg Gln Val Gly Val Tyr Leu Leu Pro Gly Arg
      130             135             140

Val Gly Cys Val Ser Ser Arg Val Ser Xaa Ser Phe Pro Gly Asp Gly
      145             150             155             160

Leu Asp Ser Gly Leu Ala Xaa Arg Gly Ser Ala Val Ser Ala Leu Ala
      165             170             175

Ser Gly Leu Val Glu Glu Pro Met Leu Gly Pro Pro Phe His Pro Thr
      180             185             190

Pro Arg Phe Lys Ala Val Ser Ala Lys Ser Lys Glu Asp Leu Val Ser
      195             200             205

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497

Gln Gly Phe Thr Glu Phe Thr Ile Glu Asp Phe His Asn Thr Phe Met
 210 215 220
 Asp Leu Ile Glu Gln Val Glu Lys Gln Thr Ser Val Ala Asp Leu Leu
 225 230 235 240
 Ala Ser Phe Asn Asp Gln Ser Thr Ser Asp Tyr Leu Val Val Tyr Leu
 245 250 255
 Arg Leu Leu Thr Ser Gly Tyr Leu Gln Arg Glu Ser Lys Phe Phe Glu
 260 265 270
 His Phe Ile Glu Gly Gly Arg Thr Val Lys Glu Phe Cys Gln Gln Glu
 275 280 285
 Val Glu Pro Met Cys Lys Glu Ser Asp His Ile His Ile Ile Ala Leu
 290 295 300
 Ala Gln Ala Leu Ser Val Ser Ile Gln Val Glu Tyr Met Asp Arg Gly
 305 310 315 320
 Glu Gly Gly Thr Thr Asn Pro His Ile Phe Pro Glu Gly Ser Glu Pro
 325 330 335
 Lys Val Tyr Leu Leu Tyr Arg Pro Gly His Tyr Asp Ile Leu Tyr Lys
 340 345 350

<210> 544

<211> 240

<212> PRT

<213> Homo sapiens

<400> 544

Ser Thr His Ala Ser Glu Met Ala Glu Arg Gly Tyr Ser Phe Ser Leu
 1 5 10 15
 Thr Thr Phe Ser Pro Ser Gly Lys Leu Val Gln Ile Glu Tyr Ala Leu
 20 25 30
 Ala Ala Val Ala Gly Gly Ala Pro Ser Val Gly Ile Lys Ala Ala Asn
 35 40 45
 Gly Val Val Leu Ala Thr Glu Lys Lys Gln Lys Ser Ile Leu Tyr Asp
 50 55 60
 Glu Arg Ser Val His Lys Val Glu Pro Ile Thr Lys His Ile Gly Leu

498

65		70		75		80
Val Tyr Ser Gly Met Gly Pro Asp Tyr Arg Val Leu Val His Arg Ala						
	85		90		95	
Arg Lys Leu Ala Gln Gln Tyr Tyr Leu Val Tyr Gln Glu Pro Ile Pro						
	100		105		110	
Thr Ala Gln Leu Val Gln Arg Val Ala Ser Val Met Gln Glu Tyr Thr						
	115		120		125	
Gln Ser Gly Gly Val Arg Pro Phe Gly Val Ser Leu Leu Ile Cys Gly						
	130		135		140	
Trp Asn Glu Gly Arg Pro Tyr Leu Phe Gln Ser Asp Pro Ser Gly Ala						
	145		150		155	
Tyr Phe Ala Trp Lys Ala Thr Ala Met Gly Lys Asn Tyr Val Asn Gly						
	165		170		175	
Lys Thr Phe Leu Glu Lys Arg Tyr Asn Glu Asp Leu Glu Leu Glu Asp						
	180		185		190	
Ala Ile His Thr Ala Ile Leu Thr Leu Lys Glu Ser Phe Glu Gly Gln						
	195		200		205	
Met Thr Glu Asp Asn Ile Glu Val Gly Ile Cys Asn Glu Ala Gly Phe						
	210		215		220	
Arg Arg Leu Thr Pro Thr Glu Val Lys Asp Tyr Leu Ala Ala Ile Ala						
	225		230		235	
						240

<210> 545

<211> 181

<212> PRT

<213> Homo sapiens

<400> 545

Arg Cys Ile Leu Tyr Thr Gly Phe Met Leu Gly Ala Gln Arg Glu Val														
1		5				10					15			
Asp Ser Arg Leu Leu Ala Leu Pro Gly Arg Lys Val Pro Thr Ser Trp														
	20					25					30			
Trp Asp Asp Leu Phe Lys Gly Ala Lys Glu His Gly Ala Val Ala Val														
	35					40					45			

Glu	Arg	Val	Thr	Lys	Ser	Pro	Gly	Glu	Thr	Ser	Lys	Pro	Arg	Pro	Phe	
50		55						60								
Ala	Gly	Gly	Gly	Tyr	Arg	Leu	Gly	Ala	Ala	Pro	Glu	Glu	Glu	Ser	Ala	
65		70						75							80	
Tyr	Val	Ala	Gly	Glu	Lys	Arg	Gln	His	Ser	Ser	Gln	Asp	Val	His	Val	
				85		90									95	
Val	Leu	Lys	Leu	Trp	Lys	Ser	Gly	Phe	Ser	Leu	Asp	Asn	Gly	Glu	Leu	
			100		105							110				
Arg	Ser	Tyr	Gln	Asp	Pro	Ser	Asn	Ala	Gln	Phe	Leu	Glu	Ser	Ile	Arg	
		115		120							125					
Arg	Gly	Glu	Val	Pro	Ala	Glu	Leu	Arg	Arg	Leu	Ala	His	Gly	Gly	Gln	
130		135						140								
Val	Asn	Leu	Asp	Met	Glu	Asp	His	Arg	Asp	Glu	Asp	Phe	Val	Lys	Pro	
145		150						155							160	
Lys	Gly	Ala	Phe	Lys	Ala	Phe	Thr	Gly	Glu	Gly	Gln	Lys	Leu	Gly	Ser	
				165		170							175			
Thr	Ala	Pro	Arg	Cys												
180																

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<210> 546
<211> 197
<212> PRT
<213> Homo sapiens
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```

<400> 546
Pro Arg Val Arg Arg Arg Ala Arg Ala Ala Ala Gly Ser Ser His Ala
 1             5             10             15

Ala Met Ala Asp Ser Glu Leu Gln Leu Val Glu Gln Arg Ile Arg Ser
      20             25             30

Phe Pro Asp Phe Pro Thr Pro Gly Val Val Phe Arg Asp Ile Ser Pro
      35             40             45

Val Leu Lys Asp Pro Ala Ser Phe Arg Ala Ala Ile Gly Leu Leu Ala
 50             55             60

Arg His Leu Lys Ala Thr His Gly Gly Arg Ile Asp Tyr Ile Ala Gly
 65             70             75             80

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500

[illegible]

<210> 547

<211> 93

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Glu Thr Gly Lys Glu Ser Lys Ala Leu Phe Leu Pro Phe Pro Gly Ser
1 5 10 15

Val Tyr Ser Thr Ser Thr Gly Glu Ala Ser Gly Glu Gly Leu Ser Pro
20 25 30

Leu Pro His Leu His Glu Phe Trp Asn Ser Val Leu Leu Ala Ala Cys
35 40 45

Phe Gln Leu Pro Pro Ile Ser Ile Ala Ala Gly Ser Ser Cys Leu Phe
50 55 60

Tyr Ser Val Ile Lys His Pro Ala Pro Thr Leu Ser Gln Arg Ser Ile
65 70 75 80

501

Leu Ile Leu Xaa Lys Lys Ile Tyr Glu Glu Lys Lys Lys
85 90

```
<210> 548
<211> 49
<212> PRT
<213> Homo sapiens
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```
<220> .
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 548
Gly Leu Gln Leu Xaa Ala His Ala Ala Gly Arg Val Pro Gly Cys Ala
 1          5          10          15
Leu Gln Gly Leu Gly His Phe Leu Gln Glu Asn Lys Gln Leu Leu Arg
          20          25          30
Asp Val Leu Ala Gln Glu Leu His Lys Pro Ala Phe Glu Gly Arg His
          35          40          45
Ile

```

```
<210> 549
<211> 379
<212> PRT
<213> Homo sapiens
```

```

<400> 549
Val Ala Cys Cys Val Arg Ile Pro Gly Pro Pro Arg Arg Ser Gly Pro
  1          5          10          15
Ala Met Ala Val Thr Ile Thr Leu Lys Thr Leu Gln Gln Gln Thr Phe
          20          25          30
Lys Ile Arg Met Glu Pro Asp Glu Thr Val Lys Val Leu Lys Glu Lys
          35          40          45
Ile Glu Ala Glu Lys Gly Arg Asp Ala Phe Pro Val Ala Gly Gln Lys
          50          55          60
Leu Ile Tyr Ala Gly Lys Ile Leu Ser Asp Asp Val Pro Ile Arg Asp
          65          70          75          80

```

502

Tyr	Arg	Ile	Asp	Glu	Lys	Asn	Phe	Val	Val	Val	Met	Val	Thr	Lys	Thr	85	90	95
Lys	Ala	Gly	Gln	Gly	Thr	Ser	Ala	Pro	Pro	Glu	Ala	Ser	Pro	Thr	Ala	100	105	110
Ala	Pro	Glu	Ser	Ser	Thr	Ser	Phe	Pro	Pro	Ala	Pro	Thr	Ser	Gly	Met	115	120	125
Ser	His	Pro	Pro	Pro	Ala	Ala	Arg	Glu	Asp	Lys	Ser	Pro	Ser	Glu	Glu	130	135	140
Ser	Ala	Pro	Thr	Thr	Ser	Pro	Glu	Ser	Val	Ser	Gly	Ser	Val	Pro	Ser	145	150	155
Ser	Gly	Ser	Ser	Gly	Arg	Glu	Glu	Asp	Ala	Ala	Ser	Thr	Leu	Val	Thr	165	170	175
Gly	Ser	Glu	Tyr	Glu	Thr	Met	Leu	Thr	Glu	Ile	Met	Ser	Met	Gly	Tyr	180	185	190
Glu	Arg	Glu	Arg	Val	Val	Ala	Ala	Leu	Arg	Ala	Ser	Tyr	Asn	Asn	Pro	195	200	205
His	Arg	Ala	Val	Glu	Tyr	Leu	Leu	Thr	Gly	Ile	Pro	Gly	Ser	Pro	Glu	210	215	220
Pro	Glu	His	Gly	Ser	Val	Gln	Glu	Ser	Gln	Val	Ser	Glu	Gln	Pro	Ala	225	230	235
Thr	Glu	Ala	Gly	Glu	Asn	Pro	Leu	Glu	Phe	Leu	Arg	Asp	Gln	Pro	Gln	245	250	255
Phe	Gln	Asn	Met	Arg	Gln	Val	Ile	Gln	Gln	Asn	Pro	Ala	Leu	Leu	Pro	260	265	270
Ala	Leu	Leu	Gln	Gln	Leu	Gly	Gln	Glu	Asn	Pro	Gln	Leu	Leu	Gln	Gln	275	280	285
Ile	Ser	Arg	His	Gln	Glu	Gln	Phe	Ile	Gln	Met	Leu	Asn	Glu	Pro	Pro	290	295	300
Gly	Glu	Leu	Ala	Asp	Ile	Ser	Asp	Val	Glu	Gly	Glu	Val	Gly	Ala	Ile	305	310	315
Gly	Glu	Glu	Ala	Pro	Gln	Met	Asn	Tyr	Ile	Gln	Val	Thr	Pro	Gln	Glu	325	330	335
Lys	Glu	Ala	Ile	Glu	Arg	Leu	Lys	Ala	Leu	Gly	Phe	Pro	Glu	Ser	Leu	340	345	350

Val Ile Gln Ala Tyr Phe Ala Cys Glu Lys Asn Glu Asn Leu Ala Ala
355 360 365

Asn Phe Leu Leu Ser Gln Asn Phe Asp Asp Glu
370 375

<210> 550

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (235)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (260)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (261)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 550

Cys Ser Cys Lys Arg Xaa His Gln Gln Gln Val Leu Pro Pro Arg Gln
1 5 10 15

Pro Ser Ala Leu Val Pro Ser Val Thr Glu Tyr Arg Leu Asp Gly His
20 25 30

504

Thr Ile Ser Asp Leu Ser Arg Ser Ser Arg Gly Glu Leu Ile Pro Ile
 35 40 45
 Ser Pro Ser Thr Glu Val Gly Gly Ser Gly Ile Gly Thr Pro Pro Ser
 50 55 60
 Val Leu Lys Arg Gln Arg Lys Arg Arg Val Ala Leu Ser Pro Val Thr
 65 70 75 80
 Glu Asn Ser Thr Ser Leu Ser Phe Leu Asp Ser Cys Asn Ser Leu Thr
 85 90 95
 Pro Lys Ser Thr Pro Val Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe
 100 105 110
 Leu Asn Phe Trp Asn Lys Gln Asp Thr Leu Glu Leu Glu Ser Pro Ser
 115 120 125
 Leu Thr Ser Thr Pro Val Cys Ser Gln Lys Val Val Val Thr Thr Pro
 130 135 140
 Leu His Arg Asp Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val
 145 150 155 160
 Thr Pro Asp Gln Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr
 165 170 175
 Pro Phe Lys Asn Ala Leu Glu Lys Tyr Gly Pro Leu Lys Pro Leu Pro
 180 185 190
 Gln Thr Pro His Leu Glu Glu Asp Leu Lys Glu Val Leu Arg Ser Glu
 195 200 205
 Ala Gly Ile Glu Leu Ile Ile Glu Asp Asp Ile Arg Pro Glu Lys Gln
 210 215 220
 Lys Arg Lys Pro Gly Leu Arg Arg Ser Pro Xaa Lys Lys Val Arg Lys
 225 230 235 240
 Ser Leu Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser
 245 250 255
 Thr Leu Pro Xaa Xaa Leu Ser Leu Ala Thr Xaa Ala Pro Cys Lys Xaa
 260 265 270
 Phe Gln Pro
 275

<210> 551

505

<211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 551

Asn	Leu	Ala	Ala	Ala	Ser	Gly	Gly	Gly	Pro	Gln	Ser	Val	Ser	Gly	Thr
1					5				10					15	
Leu	Leu	Cys	Glu	Pro	Val	Leu	Thr	Met	Phe	Ala	Thr	Ser	Gly	Ala	Val
			20					25					30		
Ala	Ala	Gly	Lys	Pro	Tyr	Ser	Cys	Ser	Glu	Cys	Gly	Lys	Ser	Phe	Cys
		35					40					45			
Tyr	Ser	Ser	Val	Leu	Leu	Arg	His	Glu	Arg	Ala	His	Gly	Gly	Asp	Gly
	50					55					60				
Arg	Phe	Arg	Cys	Leu	Glu	Cys	Gly	Glu	Arg	Cys	Ala	Arg	Ala	Ala	Asp
65				70						75					80
Leu	Arg	Ala	His	Arg	Arg	Thr	His	Ala	Gly	Gln	Thr	Leu	Tyr	Ile	Cys
			85						90					95	
Ser	Glu	Cys	Gly	Gln	Ser	Phe	Arg	His	Ser	Gly	Arg	Leu	Asp	Leu	His
			100					105					110		
Leu	Gly	Ala	His	Arg	Gln	Arg	Cys	Arg	Thr	Cys	Pro	Cys	Arg	Thr	Cys
		115					120					125			
Gly	Arg	Arg	Phe	Pro	His	Leu	Pro	Ala	Leu	Leu	Leu	His	Arg	Arg	Arg
		130				135					140				
Gln	His	Leu	Pro	Glu	Arg	Pro	Arg	Arg	Cys	Pro	Leu	Cys	Xaa	Leu	Arg
145					150					155					160
Phe															

<210> 552
 <211> 405
 <212> PRT
 <213> Homo sapiens

<400> 552

506

Pro Arg Val Arg Arg Arg Ala Arg Gly Arg Arg Val Arg Pro Ala Gly
 1 5 10 15
 Gly Pro Val Arg Arg Gly Ala Ala Val Arg Gly Ala Leu Arg Gly Ala
 20 25 30
 Ser Leu Gly His Gly Ala Ala Ala Arg Ala Gly Arg Pro Leu Cys Val
 35 40 45
 Arg His Ser Glu Pro Val Cys Gly Ser Asp Ala Asn Thr Tyr Ala Asn
 50 55 60
 Leu Cys Gln Leu Arg Ala Ala Ser Arg Arg Ser Glu Arg Leu His Arg
 65 70 75 80
 Pro Pro Val Ile Val Leu Gln Arg Gly Ala Cys Gly Gln Gly Gln Glu
 85 90 95
 Asp Pro Asn Ser Leu Arg His Lys Tyr Asn Phe Ile Ala Asp Val Val
 100 105 110
 Glu Lys Ile Ala Pro Ala Val Val His Ile Glu Leu Phe Arg Lys Leu
 115 120 125
 Pro Phe Ser Lys Arg Glu Val Pro Val Ala Ser Gly Ser Gly Phe Ile
 130 135 140
 Val Ser Glu Asp Gly Leu Ile Val Thr Asn Ala His Val Val Thr Asn
 145 150 155 160
 Lys His Arg Val Lys Val Glu Leu Lys Asn Gly Ala Thr Tyr Glu Ala
 165 170 175
 Lys Ile Lys Asp Val Asp Glu Lys Ala Asp Ile Ala Leu Ile Lys Ile
 180 185 190
 Asp His Gln Gly Lys Leu Pro Val Leu Leu Leu Gly Arg Ser Ser Glu
 195 200 205
 Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe Ser Leu
 210 215 220
 Gln Asn Thr Val Thr Thr Gly Ile Val Ser Thr Thr Gln Arg Gly Gly
 225 230 235 240
 Lys Glu Leu Gly Leu Arg Asn Ser Asp Met Asp Tyr Ile Gln Thr Asp
 245 250 255
 Ala Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn Leu Asp
 260 265 270

507

Gly Glu Val Ile Gly Ile Asn Thr Leu Lys Val Thr Ala Gly Ile Ser
 275 280 285
 Phe Ala Ile Pro Ser Asp Lys Ile Lys Lys Phe Leu Thr Glu Ser His
 290 295 300
 Asp Arg Gln Ala Lys Gly Lys Ala Ile Thr Lys Lys Lys Tyr Ile Gly
 305 310 315 320
 Ile Arg Met Met Ser Leu Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp
 325 330 335
 Arg His Arg Asp Phe Pro Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu
 340 345 350
 Val Ile Pro Asp Thr Pro Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp
 355 360 365
 Val Ile Ile Ser Ile Asn Gly Gln Ser Val Val Ser Ala Asn Asp Val
 370 375 380
 Ser Asp Val Ile Lys Arg Glu Ser Thr Leu Asn Met Val Val Arg Arg
 385 390 395 400
 Val Met Lys Ile Ser
 405

<210> 553

<211> 107

<212> PRT

<213> Homo sapiens

<400> 553

Ala Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln Asn Gly Glu Glu
 1 5 10 15
 Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro Ala Gly Asn Arg
 20 25 30
 Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro
 35 40 45
 Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly Asp Asp Met Glu
 50 55 60
 Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu
 65 70 75 80
 Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His

508

	85	90	95
His Asp His His Asp Glu Phe Cys Leu Met Pro			
100	105		

<210> 554
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 554
 Gly Leu Ser Ala Glu Ser Thr Xaa Thr Ser Thr Met Pro Met Xaa Leu
 1 5 10 15
 Gly Tyr Trp Xaa Ile Arg Gly Leu Ala His Xaa Ile Arg Leu Leu Leu
 20 25 30
 Glu Tyr Thr Asp Ser Ser Tyr Glu Glu Lys Lys Tyr Thr Met Gly Asp
 35 40 45
 Ala Pro Asp Tyr Asp Arg Ser Gln Trp Leu Asn Glu Lys Phe Lys Leu
 50 55 60
 Gly Leu Asp Phe Pro Asn Leu Pro Tyr Leu Ile Asp Gly Xaa His Lys

509

65				70				75				80			
Ile	Thr	Gln	Ser	Asn	Ala	Ile	Leu	Arg	Tyr	Ile	Ala	Arg	Lys	His	Asn
				85				90				95			
Leu	Cys	Gly	Glu	Ser	Glu	Lys	Glu	Gln	Ile	Arg	Glu	Asp	Ile	Leu	Glu
				100				105				110			
Asn	Gln	Phe	Met	Asp	Ser	Arg	Met	Gln	Leu	Ala	Lys	Leu	Cys	Tyr	Asp
				115				120				125			
Pro	Asp	Phe	Glu	Lys	Leu	Lys	Pro	Glu	Tyr	Leu	Gln	Ala	Leu	Pro	Glu
				130				135				140			
Met	Leu	Lys	Leu	Tyr	Ser	Gln	Phe	Leu	Gly	Lys	Gln	Pro	Trp	Phe	Leu
145				150				155				160			
Gly	Asp	Lys	Ile	Thr	Phe	Val	Asp	Phe	Ile	Ala	Tyr	Asp	Val	Leu	Glu
				165				170				175			
Arg	Asn	Gln	Val	Phe	Glu	Pro	Ser	Cys	Leu	Asp	Ala	Phe	Pro	Asn	Leu
				180				185				190			
Lys	Asp	Phe	Ile	Ser	Arg	Phe	Glu	Gly	Leu	Glu	Lys	Ile	Ser	Ala	Tyr
				195				200				205			
Met	Lys	Ser	Ser	Arg	Phe	Leu	Pro	Arg	Pro	Val	Phe	Thr	Lys	Met	Ala
				210				215				220			
Val	Trp	Gly	Asn	Lys											
225															

<210> 555

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

510

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 555

Asn	Val	Ile	Ser	Val	Asp	Pro	Asn	Asp	Gln	Lys	Lys	Thr	Ala	Cys	Tyr
1				5					10					15	

Asp	Ile	Asp	Val	Glu	Val	Asp	Asp	Thr	Leu	Lys	Thr	Gln	Met	Asn	Ser
			20					25					30		

Phe	Leu	Leu	Ser	Thr	Ala	Ser	Gln	Gln	Glu	Ile	Ala	Thr	Leu	Asp	Asn
			35				40					45			

Lys	Thr	Met	Thr	Asp	Val	Val	Gly	Asn	Gln	Xaa	Xaa	Ser	Ala	Glu	Leu
	50					55					60				

Ser	Ser	Thr	Ser	Ser	Pro	Gly	Xaa	Gly	Gly	Cys	Val	Pro	Ile	Leu	Leu
65					70					75					80

Leu	Gln	Gly	Ala	Ala	Glu	Thr	Thr	Arg	Ile	Arg	Ala	Ser	Pro	Gly	Asn
				85					90					95	

Pro	Xaa	Tyr	Ile	Gly	Pro	Leu	Pro	Gln	Pro
		100						105	

<210> 556

<211> 86

<212> PRT

<213> Homo sapiens

<400> 556

Gly	Arg	Ala	Thr	Lys	Gln	Asn	Thr	Thr	Lys	Pro	Asn	His	Arg	Ile	Ile
1				5					10					15	

Phe	Asn	Pro	Thr	Phe	Tyr	Thr	Met	Pro	Gln	Phe	Pro	Ile	Thr	Leu	His
			20					25					30		

Thr	Ser	Phe	Cys	Val	Gln	Leu	Asn	Cys	Asn	Cys	Phe	Leu	Tyr	Leu	Glu
		35					40					45			

Arg	Val	Thr	Ile	Glu	Leu	Glu	Thr	Phe	Tyr	Ser	Gly	Arg	Leu	Gly	Ser
	50					55					60				

Phe	Trp	Trp	Asp	Ser	Val	Gly	Glu	Arg	Glu	Glu	Gly	Glu	Val	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

511

65

70

75

80

Leu Leu Pro Phe Arg Thr
85

<210> 557

<211> 565

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (552)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 557

Ala Ser Leu Thr Gly Thr Gln Ala Leu Pro Pro Leu Phe Ser Leu Gly
1 5 10 15

512

Tyr	His	Gln	Ser	Arg	Trp	Asn	Tyr	Arg	Asp	Glu	Ala	Asp	Val	Leu	Glu	20	25	30
Val	Asp	Gln	Gly	Phe	Asp	Asp	His	Asn	Leu	Pro	Cys	Asp	Val	Ile	Trp	35	40	45
Leu	Asp	Ile	Glu	His	Ala	Asp	Gly	Xaa	Arg	Tyr	Phe	Thr	Trp	Asp	Pro	50	55	60
Ser	Arg	Phe	Pro	Gln	Pro	Xaa	Thr	Met	Leu	Xaa	Arg	Leu	Ala	Ser	Lys	65	70	75
Arg	Xaa	Lys	Leu	Val	Ala	Ile	Val	Asp	Pro	His	Ile	Lys	Val	Asp	Ser	85	90	95
Gly	Tyr	Arg	Val	His	Glu	Glu	Leu	Arg	Asn	Leu	Gly	Leu	Tyr	Val	Lys	100	105	110
Thr	Arg	Asp	Gly	Ser	Xaa	Tyr	Xaa	Gly	Trp	Cys	Trp	Pro	Gly	Ser	Ala	115	120	125
Gly	Tyr	Pro	Asp	Phe	Thr	Asn	Pro	Thr	Met	Arg	Ala	Trp	Trp	Ala	Asn	130	135	140
Met	Phe	Ser	Tyr	Asp	Asn	Tyr	Glu	Gly	Ser	Ala	Pro	Asn	Leu	Phe	Val	145	150	155
Trp	Asn	Asp	Met	Asn	Glu	Pro	Ser	Val	Phe	Asn	Gly	Pro	Glu	Val	Thr	165	170	175
Met	Leu	Lys	Asp	Ala	Gln	His	Tyr	Gly	Gly	Trp	Glu	His	Arg	Asp	Val	180	185	190
His	Asn	Ile	Tyr	Gly	Leu	Tyr	Val	His	Met	Ala	Thr	Ala	Asp	Gly	Leu	195	200	205
Arg	Gln	Arg	Ser	Gly	Gly	Met	Glu	Arg	Pro	Phe	Val	Leu	Ala	Arg	Ala	210	215	220
Phe	Phe	Ala	Gly	Ser	Gln	Arg	Phe	Gly	Ala	Val	Trp	Thr	Gly	Asp	Asn	225	230	235
Thr	Ala	Glu	Trp	Asp	His	Leu	Lys	Ile	Ser	Ile	Pro	Met	Cys	Leu	Ser	245	250	255
Leu	Gly	Leu	Val	Gly	Leu	Ser	Phe	Cys	Gly	Ala	Asp	Val	Gly	Gly	Phe	260	265	270
Phe	Lys	Asn	Pro	Glu	Pro	Glu	Leu	Leu	Val	Arg	Trp	Tyr	Gln	Met	Gly	275	280	285

513

Ala Tyr Gln Pro Phe Phe Arg Ala His Ala His Leu Asp Thr Gly Arg
 290 295 300
 Arg Glu Pro Trp Leu Leu Pro Ser Gln His Asn Asp Ile Ile Arg Asp
 305 310 315 320
 Ala Leu Gly Gln Arg Tyr Ser Leu Leu Pro Phe Trp Tyr Thr Leu Leu
 325 330 335
 Tyr Gln Ala His Arg Glu Gly Ile Pro Val Met Arg Pro Leu Trp Val
 340 345 350
 Gln Tyr Pro Gln Asp Val Thr Thr Phe Asn Ile Asp Asp Gln Tyr Leu
 355 360 365
 Leu Gly Asp Ala Leu Leu Val His Pro Val Ser Asp Ser Gly Ala His
 370 375 380
 Gly Val Gln Val Tyr Leu Pro Gly Gln Gly Glu Val Trp Tyr Asp Ile
 385 390 395 400
 Gln Ser Tyr Gln Lys His His Gly Pro Gln Thr Leu Tyr Leu Pro Val
 405 410 415
 Thr Leu Ser Ser Ile Pro Val Phe Gln Arg Gly Gly Thr Ile Val Pro
 420 425 430
 Arg Trp Met Arg Val Arg Arg Ser Ser Glu Cys Met Lys Asp Asp Pro
 435 440 445
 Ile Thr Leu Phe Val Ala Leu Ser Pro Gln Gly Thr Ala Gln Gly Glu
 450 455 460
 Leu Phe Leu Asp Asp Gly His Thr Phe Asn Tyr Gln Thr Arg Gln Glu
 465 470 475 480
 Phe Leu Leu Arg Arg Phe Ser Phe Ser Gly Asn Thr Leu Val Ser Ser
 485 490 495
 Ser Ala Asp Pro Glu Gly His Phe Glu Thr Pro Ile Trp Ile Glu Arg
 500 505 510
 Val Val Ile Ile Gly Ala Gly Lys Pro Ala Ala Val Val Leu Gln Thr
 515 520 525
 Lys Gly Ser Pro Glu Ser Arg Leu Ser Phe Gln His Asp Pro Glu Thr
 530 535 540
 Ser Val Leu Val Leu Arg Lys Xaa Gly Ile Asn Val Ala Ser Asp Trp
 545 550 555 560

514

Ser Ile His Leu Arg
565

<210> 558

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 558

Arg Glu Ala Val Leu Pro Gln Ala Val Leu Arg His Pro Val Arg Thr
1 5 10 15

Gln Arg Arg Glu His Arg Gly Arg Gly Leu Leu His Leu Arg Glu Ala
20 25 30

Pro Gly Gly Gly Ala Ala Xaa His Arg Pro His Arg Gly Pro Arg Gly
35 40 45

Pro Ser Arg Gly Ala Glu Gly Glu Arg Pro Pro Glu Gly Pro Ser Arg
50 55 60

Ala Ser Ser Val Thr Thr Phe Thr Gly Glu Pro Asn Thr Cys Pro Arg
65 70 75 80

Cys Ser Lys Lys Val Tyr Phe Ala Glu Lys Val Thr Ser Leu Gly Lys
85 90 95

Asp Trp His Arg Pro Cys Leu Arg Cys Glu Arg Cys Gly Lys Thr Leu
100 105 110

Thr Pro Gly Gly His Ala Glu His Asp Gly Gln Pro Tyr Cys His Lys
115 120 125

Pro Cys Tyr Gly Ile Leu Phe Gly Pro Lys Gly Val Asn Thr Gly Ala
130 135 140

Val Gly Ser Tyr Ile Tyr Asp Arg Asp Pro Glu Gly Lys Val Gln Pro
145 150 155 160

515

<210> 559

<211> 480

<212> PRT

<213> Homo sapiens

<400> 559

Gly Cys Ile Gly Tyr Leu Val Leu Leu Trp Pro Leu Pro Leu Ile His
 1 5 10 15

Phe Gly Leu Ala Asn Gln Ser Glu Asp Leu Ser Val Phe Tyr Pro Gly
 20 25 30

Thr Leu Leu Glu Thr Gly His Asp Ile Leu Phe Phe Trp Val Ala Arg
 35 40 45

Met Val Met Leu Gly Leu Lys Leu Thr Gly Arg Leu Pro Phe Arg Glu
 50 55 60

Val Tyr Leu His Ala Ile Val Arg Asp Ala His Gly Arg Lys Met Ser
 65 70 75 80

Lys Ser Leu Gly Asn Val Ile Asp Pro Leu Asp Val Ile Tyr Gly Ile
 85 90 95

Ser Leu Gln Gly Leu His Asn Gln Leu Leu Asn Ser Asn Leu Asp Pro
 100 105 110

Ser Glu Val Glu Lys Ala Lys Glu Gly Gln Lys Ala Asp Phe Pro Ala
 115 120 125

Gly Ile Pro Glu Cys Gly Thr Asp Ala Leu Arg Phe Gly Leu Cys Ala
 130 135 140

Tyr Met Ser Gln Gly Arg Asp Ile Asn Leu Asp Val Asn Arg Ile Leu
 145 150 155 160

Gly Tyr Arg His Phe Cys Asn Lys Leu Trp Asn Ala Thr Lys Phe Ala
 165 170 175

Leu Arg Gly Leu Gly Lys Gly Phe Val Pro Ser Pro Thr Ser Gln Pro
 180 185 190

Gly Gly His Glu Ser Leu Val Asp Arg Trp Ile Arg Ser Arg Leu Thr
 195 200 205

Glu Ala Val Arg Leu Ser Asn Gln Gly Phe Gln Ala Tyr Asp Phe Pro
 210 215 220

Ala Val Thr Thr Ala Gln Tyr Ser Phe Trp Leu Tyr Glu Leu Cys Asp
 225 230 235 240

516

Val Tyr Leu Glu Cys Leu Lys Pro Val Leu Asn Gly Val Asp Gln Val
 245 250 255

Ala Ala Glu Cys Ala Arg Gln Thr Leu Tyr Thr Cys Leu Asp Val Gly
 260 265 270

Leu Arg Leu Leu Ser Pro Phe Met Pro Phe Val Thr Glu Glu Leu Phe
 275 280 285

Gln Arg Leu Pro Arg Arg Met Pro Gln Ala Pro Pro Ser Leu Cys Val
 290 295 300

Thr Pro Tyr Pro Glu Pro Ser Glu Cys Ser Trp Lys Asp Pro Glu Ala
 305 310 315 320

Glu Ala Ala Leu Glu Leu Ala Leu Ser Ile Thr Arg Ala Val Arg Ser
 325 330 335

Leu Arg Ala Asp Tyr Asn Leu Thr Arg Ile Arg Pro Asp Cys Phe Leu
 340 345 350

Glu Val Ala Asp Glu Ala Thr Gly Ala Leu Ala Ser Ala Val Ser Gly
 355 360 365

Tyr Val Gln Ala Leu Ala Ser Ala Gly Val Val Ala Val Leu Ala Leu
 370 375 380

Gly Ala Pro Ala Pro Gln Gly Cys Ala Val Ala Leu Ala Ser Asp Arg
 385 390 395 400

Cys Ser Ile His Leu Gln Leu Gln Gly Leu Val Asp Pro Ala Arg Glu
 405 410 415

Leu Gly Lys Leu Gln Ala Lys Arg Val Glu Ala Gln Arg Gln Ala Gln
 420 425 430

Arg Leu Arg Glu Arg Arg Ala Ala Ser Gly Tyr Pro Val Lys Val Pro
 435 440 445

Leu Glu Val Gln Glu Ala Asp Glu Ala Lys Leu Gln Gln Thr Glu Ala
 450 455 460

Glu Leu Arg Lys Val Asp Glu Ala Ile Ala Leu Phe Gln Lys Met Leu
 465 470 475 480

<210> 560

517

<211> 96

<212> PRT

<213> Homo sapiens

<400> 560

Ala Cys Leu Glu Arg Cys Gly Ser Trp Arg Pro His Arg Pro Met Thr
 1 5 10 15
 Ser Gly Ala Arg Glu Asn Pro Ile Gln Val Pro Arg Ser Ser Leu Glu
 20 25 30
 Ala Thr Gly Ala Gln Glu Arg Trp Ala Glu Asp Val Pro Tyr Pro Thr
 35 40 45
 Thr Arg Ala Val Ser Leu Pro Pro Ser Leu Gly Val Gly Ser Thr Gly
 50 55 60
 Met Ser Ser Ser Arg Phe Leu Gly Ser Leu Gly Lys His Gly Arg Leu
 65 70 75 80
 Asp Ser Ser Arg Arg Ala Arg Leu Trp Gly Arg Gly Gly Arg Gly Gly
 85 90 95

<210> 561

<211> 60

<212> PRT

<213> Homo sapiens

<400> 561

Ile Arg His Glu Ser Ser Ile Leu Ser Val Leu Phe Ile Arg Phe Leu
 1 5 10 15
 Lys Cys Ala Asp Pro Phe Lys Thr Pro Ala Tyr Leu Cys Asn Lys Glu
 20 25 30
 Lys Tyr Ser Lys Ile Leu Pro Ser Phe Ser His Thr Val Leu Lys Met
 35 40 45
 Leu Gln Asp Gln Ile Ile Ala His Lys Ile Arg Ser
 50 55 60

<210> 562

<211> 241

<212> PRT

518

<213> Homo sapiens

<400> 562

Ser Ser Met Ala Lys Pro Cys Gly Val Arg Leu Ser Gly Glu Ala Arg
 1 5 10 15

Lys Gln Val Glu Val Phe Arg Gln Asn Leu Phe Gln Glu Ala Glu Glu
 20 25 30

Phe Leu Tyr Arg Phe Leu Pro Gln Lys Ile Ile Tyr Leu Asn Gln Leu
 35 40 45

Leu Gln Glu Asp Ser Leu Asn Val Ala Asp Leu Thr Ser Leu Arg Ala
 50 55 60

Pro Leu Asp Ile Pro Ile Pro Asp Pro Pro Pro Lys Asp Asp Glu Met
 65 70 75 80

Glu Thr Asp Lys Gln Glu Lys Lys Glu Val Pro Lys Cys Gly Phe Leu
 85 90 95

Pro Gly Asn Glu Lys Val Leu Ser Leu Leu Ala Leu Val Lys Pro Glu
 100 105 110

Val Trp Thr Leu Lys Glu Lys Cys Ile Leu Val Ile Thr Trp Ile Gln
 115 120 125

His Leu Ile Pro Lys Ile Glu Asp Gly Asn Asp Phe Gly Val Ala Ile
 130 135 140

Gln Glu Lys Val Leu Glu Arg Val Asn Ala Val Lys Thr Lys Val Glu
 145 150 155 160

Ala Phe Gln Thr Thr Ile Ser Lys Tyr Phe Ser Glu Arg Gly Asp Ala
 165 170 175

Val Ala Lys Ala Ser Lys Glu Thr His Val Met Asp Tyr Arg Ala Leu
 180 185 190

Val His Glu Arg Asp Glu Ala Ala Tyr Gly Glu Leu Arg Ala Met Val
 195 200 205

Leu Asp Leu Arg Ala Phe Tyr Ala Glu Leu Tyr His Ile Ile Ser Ser
 210 215 220

Asn Leu Glu Lys Ile Val Asn Pro Lys Gly Glu Glu Lys Pro Ser Met
 225 230 235 240

Tyr

519

<210> 563

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 563

Leu Gly Ser Ile Gln Val Met Gln Ala Val Arg Asn Ala Gly Ser Arg
 1 5 10 15

Phe Leu Arg Ser Trp Thr Trp Pro Gln Thr Ala Gly Arg Val Val Ala
 20 25 30

Arg Thr Pro Ala Gly Thr Ile Cys Thr Gly Ala Arg Gln Leu Gln Asp
 35 40 45

Ala Ala Ala Lys Gln Lys Val Glu Gln Asn Ala Ala Pro Ser His Thr
 50 55 60

Lys Phe Ser Ile Tyr Pro Pro Ile Pro Gly Glu Glu Ser Ser Leu Arg
 65 70 75 80

Trp Ala Gly Lys Lys Phe Glu Glu Ile Pro Ile Ala His Ile Lys Ala
 85 90 95

Ser His Asn Asn Thr Gln Ile Gln Val Val Ser Ala Ser Asn Glu Pro
 100 105 110

Leu Ala Phe Ala Ser Cys Gly Thr Glu Gly Phe Arg Asn Ala Lys Lys
 115 120 125

Gly Thr Gly Ile Ala Ala Gln Thr Ala Gly Ile Ala Ala Ala Ala Arg
 130 135 140

Xaa Lys Gln Lys Gly Val Ile His Ile Arg Val Val Val Lys Gly Leu
 145 150 155 160

Gly Pro Gly Arg Leu Ser Ala Met His Gly Leu Ile Met Gly Gly Leu
 165 170 175

Glu Val Ile Ser Ile Thr Asp Asn Thr Pro Ile Pro His Asn Gly Cys
 180 185 190

Arg Pro Arg Lys Ala Arg Lys Leu
 195 200

520

<210> 564
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 564
 Val Arg Leu Val Pro Gly Ala Asp Lys Tyr Asn Asp Asp Ile Arg Lys
 1 5 10 15
 Gly Ile Val Leu Leu Glu Glu Leu Leu Pro Lys Gly Ser Lys Glu Glu
 20 25 30
 Gln Arg Asp Tyr Val Phe Tyr Leu Ala Val Gly Asn Tyr Arg Leu Lys
 35 40 45
 Glu Tyr Glu Lys Ala Leu Lys Tyr Val Arg Gly Leu Leu Gln Thr Glu
 50 55 60
 Pro Gln Asn Asn Gln Ala Lys Glu Leu Glu Arg Leu Ile Asp Lys Ala
 65 70 75 80
 Met Lys Lys Asp Gly Leu Val Gly Met Ala Ile Val Gly Gly Met Ala
 85 90 95
 Leu Gly Val Ala Gly Leu Ala Gly Leu Ile Gly Leu Ala Val Ser Lys
 100 105 110
 Ser Lys Ser
 115

<210> 565
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 565
 Pro Thr Arg Pro Asp Glu His Asp Glu Asn Asn Ala Glu Ala Ser Ala
 1 5 10 15
 Glu Leu Ser Asn Glu Gly Val Met Asn His Arg Ser Glu Glu Glu Arg
 20 25 30
 Val Thr Glu Thr Gln Lys Asn Glu Arg Val Lys Lys Gln Leu Gln Ala
 35 40 45
 Leu Ser Ser Glu Leu Ala Gln Ala Arg Asp Glu Thr Lys Lys Thr Gln